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Maximum
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                                                                                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                               Perfect score:
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                                                                                                                                        Database
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                                                                                                                                                                                                                                        DB seq
                                                                                                                                                                                                                                          length: 0
length: 2000000000
                                                                                   A Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
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32
1 IGDIGD 6
                                                                                                                                                                                                                                                                                                                             2105692 seqs,
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                                                                                                                                                                     Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries
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geneseqp2003as:*
geneseqp2003bs:*
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geneseqp2002s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                               386760381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14.150 Million cell updates/sec
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score greater t and is derived Pred. No. is the number of results predicted by chance to have a ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.

SUMMARIES

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	Ads45014	Adj48363	Adq10053	Aam79529	Aau18546	Adq10039	Abm48831	Aau52312	Adi24536	Adj70104	Adb75248	Abr41956	Aam78545	Aau18521	υı		Aau18547	Aag01408	Abo55461	Aag01407	Aaw22623	Ads29151	Abp65456	Adg43178	Adg43179	Description	•
	Bacterial		B_afzelii		Human cyt	B_afzelii	Propionib	Propionib	Human mod	Human hea	Prostate	Mouse cof	Human pro	Human cyt	Propionib	Propionib	Human cyt	Human sec	Human gen	Human sec	Type II t	Bacterial	Bifidobac	IGD-motif	IGD-motif	10n	

The invention relates to an angiogenic composition (I) comprising at least one peptide chosen from a group of peptides containing isoleucine-glycine-aspartic acid (IGD-containing peptide), and at least one angiogenic growth factor other than the at least one peptide, where the peptide stimulates cell migration. Also disclosed is a composition (III) that is active for promoting cell migration and/or angiogenesis under cell growth promoting conditions comprising an IGD-containing peptide,

Angiogenic composition comprising peptides containing isoleucine-glycine-aspartic acid, that stimulate cell migration, and angiogenic growth factor useful for promoting myocardial or peripheral angiogenesis.

WPI; 2003-697294/66.

Claim 1; SEQ ID NO 4; 22pp; English.

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Abo64512 Klebsiell	_	•	Cell	Pseud			Abb77414 Fungai me								Hypertne		-	-				Murine	Mouse G	

ALIGNMENTS

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RESULT 1
ADG43179
Angiogenic composition; isoleucine-glycine-aspartic acid; IGD; angiogenic growth factor; cell migration; angiogenesis; ischaemia; heart;
                                                                                                                                                                                                                                                                                       ADG43179 standard; peptide; 6
                                                                                                                                          21-DEC-2001; 2001US-00027015.
                                                                                                                                                                       24-JUL-2003.
                                                                                                                                                                                      WO2003059436-A2
                                                                                                                                                                                                    Unidentified.
                                                                                                                                                                                                                 polyvinyl pyrrolidone; cyclic.
                                                                                                                                                                                                                                            IGD-motif peptide #SEQ ID
                                                                                                                                                                                                                                                           26-FEB-2004 (first entry)
                                                                                                                                                                                                                                                                         ADG43179;
                                                                                                              Akella R, Ranieri J;
                                                                                                                                                         23-DEC-2002; 2002WO-US041484.
                                                                                                                             CENTERPULSE BIOLOGICS INC.
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RESULT 2
ADG43178
ADG43178
AC ADG4
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The invention relates to an angiogenic composition (I) comprising at least one peptide chosen from a group of peptides containing isoleucine-glycine-aspartic acid (IGD-containing peptide), and at least one angiogenic growth factor other than the at least one peptide, where the peptide stimulates cell migration. Also disclosed is a composition (III) that is active for promoting cell migration and/or angiogenesis under cell growth promoting conditions comprising an IGD-containing peptide, and a matrix material. Compositions of the invention are useful for promoting myocardial angiogenesis which involves administering (I) or individual, to enhance vascular endothelial cell migration and/or promoting endance vascular endothelial cell migration and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             migration and/or proliferation surficient to receptable carrier in flow to the ischaemic tissue. The physiologically acceptable carrier in the composition is polyvinyl pyrrolidone. The current sequence represents an IGD-motif peptide that is specifically claimed in the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Angiogenic composition comprising peptides containing isoleucine-glycine-
aspartic acid, that stimulate cell migration, and angiogenic growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Angiogenic composition; isoleucine-glycine-aspartic acid; IGD; angiogenic growth factor; cell migration; angiogenesis; ischae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADG43178 standard; peptide; 6 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-697294/66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Akella
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polyvinyl pyrrolidone.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   factor useful for promoting myocardial or peripheral angiogenesis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IGD-motif peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CENT-) CENTERPULSE BIOLOGICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       2; SEQ ID NO 3; 22pp; English.
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Pred. No. 1.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                migration; angiogenesis; ischaemia; heart;
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                 sequence of a Bifidobacterium genome selected from the nucleotide consequences given in ABQ81842 and ABQ81843, or a sequence exhibiting at CL least 90% identity or which hybridises with the sequence exhibiting at CC least 90% identity or which hybridises with the sequence siven in CC ABQ81843. Also described is a polymucleotide (II) encoding a CC fusion protein, comprising a sequence selected from 1097 sequences given in ABP65258 to ABP66354 ligated in frame to a polymucleotide encoding a CC heterologous polypeptide. (I) has antidiarrheic and antibacterial CC activities, and can be used as an inhibitor of Salmonella. (I) (which is a probe) is useful for the detection and/or identification of Bifidobacterium longum in a biological sample. A carrier containing the lactic acid bacterium Bifidobacterium longum NCC2705 (CNCM I-2618) can be used for preventing and/or treating diarrhoea brought about by pathogenic containing and/or rotarirus. The carrier is a food composition selected from milk, yogurt, curd, cheese, fermented milks, milk based fermented convolutes, ife-creams, fermented cereal based products, ice-creams, fermented cereal based products of the carrier form.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bifidobacterium longum NCC2705; Bifidobacterium; bacterial; antidiarrheic; antibacterial; inhibitor of Salmonella; detection; identification; lactic acid bacterium; diarrhoea; pathogenic bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel polynucleotide comprising Bifidobacterium genome sequence useful a probe or primer for detecting and/or identifying Bifidobacterium long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-668397/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-JAN-2001; 2001EP-00102050.
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       from milk, yogu...
from crea. ice-creams,
formu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in a biological sample.
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Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention describes a polynucleotide (I) comprising
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The invention relates to a recombinant DNA construct comprising a promoter functional in a plant cell, where the promoter is positioned to provide for expression of a polynucleotide encoding a polypeptide from a microbial source. The invention also relates to a transformed plant comprising the recombinant DNA construct and a method of producing a transformed plant having an improved property. The plant is a crop plant such as maize or soybean. The method of producing a transformed plant the plant is a crop plant such as maize or soybean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Recombinant DNA construct; transformed plant; improved plant property; cold tolerance; heat tolerance; drought tolerance; herbicide; osmosis; pathogen tolerance; pest tolerance; plant disease resistance; cell cycle pathway modification; plant growth regulator; homologous recombination; seed oil yield; protein yield; carbohydrate; nitrogen; phosphorus; photosynthesis; lignin; galactomannan; bacterial polypeptide.
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                                                                                                                                                                                                                                                                                New recombinant DNA construct comprising a promoter positioned to provide for expression of a polynucleotide encoding a polypeptide from a microbial source, useful for producing plants with improved properties.
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(HINK/)
(SLAT/)
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) HINKLE G J.
) SLATER S C.
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Claim

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signature Detection

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25-MAR-2003
12-NOV-1997
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13-AUG-1993;
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segment of organism's type II tope
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93US-00106482.
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6.8e+02;
                                                      ms - using DNA primers to amplify topoisomerase.
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Best Local :
The present sequence is a polypeptide encoded by one of a large number of 5. ESTs derived from mRNAs encoding secreted proteins. The 5. ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3. untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT
                                                                                                                                                                                                                                                                                                                              New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and fo
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                                                                                                                                                                                                                            Claim 13; SEQ ID NO 5488;
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                                                                                                                                                                                                                                                                                        forensic, gene therapy and chromosome mapping procedures
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        chromosome mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0122487F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expressed sequence tag; secreted protein; cDNA isolation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Duclert A,
                                                                                                                                                                                                                        71pp + Sequence Listing;
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Pred. No. 1.1e+02;
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                                                                                                                                                                                                                        English.
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RESULT 7
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Best Local Similarity 83.3
"Ches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors
                                                                                                                                                                                                                         New human genome-derived single exon nucleic acid probes useful for human gene expression analysis, for identifying or characterizing alternative splicing events, for assessing genomic alterations or as tools for
                                                                                                                                                                                                                                                                                                                                                                                                                     16-OCT-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; gene expression; single exon probe; microarray; alternative splicing event; genomic alteration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human genome derived single exon protein #1695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABO55461 standard; protein; 81 AA
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                                                                                                                                                                                                                                                                           WPI; 2004-119264/12
                                                                                                                                                                                                                                                                                                                                                                     03-APR-2002; 2002US-00029386
                                                                                                                                                                                                                                                                                                                                                                                              03-APR-2002; 2002US-00029386
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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(RANK/) RANK D R.
(HANZ/) HANZEL D K.
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                                                                                                                                                                                                                                                                                                 Rank DR,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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The invention relates to a nucleic acid probe for measuring human gene expression, comprising any of the 27,400 fully defined nucleotide sequences in the specification, or their complements or fragments, and encoding at least 8 amino acids of any of the 6888 amino acid sequences fully defined in the specification. The probe is a single exon probe that hybridises under high stringency conditions to a nucleic acid molecule expressed in human cells or tissues. Also included are a spatially-addressable set of single exon nucleic acid grobes for measuring human gene expression (comprising a plurality of single exon nucleic acid probes is separately and addressably isolatable or amplifiable from the plurality), a single exon microarray for measuring human gene expression, a vector comprising at least 8 measuring than gene expression, a vector comprising at least 8 measuring at least 8 measuring the single exon of the position of the single exon probe cited above, an ORF-encoded peptide comprising at least 8

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Claim 45; SEQ ID NO 29095; 80pp; English.

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AAGO1408
ID AAGC
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              smaller genomic alterations, in priming the synthesis of nucleic acids, or in expressing the ORF-encoded peptide. The present sequence is a human-single exon probe protein of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at segdata.uspto.gov/sequence.html?DocID=20030194704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        specific exon, or in constructing genome-derived single exon microarrays. In addition, the probes are used in identifying and characterising alternative splicing events, in detecting and characterising gross alternations in the genomic locus that includes their exon, in assessing alternations in the genomic locus that includes their exon, in assessing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene
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                                                                                                                                                                                                                                                                                                                               New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and fo
                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; AAC01414
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5; Conserv
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                                                                                                                                                                                                                                                                                                 forensic,
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                                                                                                                                                                                                                                                                                             gene therapy and chromosome mapping procedures
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence tag; secreted protein; cDNA isolation; mapping.
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Pred. No. 1.6e+02;
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The present sequence is a property secreted proteins. The 5' ESTs were 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated tissues.

Claim 13;

SEQ ID NO 5489; 71pp + Sequence Listing; English.

polypeptide encoded

by one of a large number of proteins. The 5' ESTs were

The present sequence is a psychology of the present sequence is a psychology of the present and present the presen

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RESULT 9
AAU18547
IID AAU18547
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XW anti:
XW anti:
XW Gere
XW Geye
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                                                 14-JUL-2000;
26-JUL-2000;
26-JUL-2000;
14-AUG-2000;
14-AUG-2000;
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24-FEB-2000;
02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cytoskeletal element-related protein; human; mouse; rabbit; goat; horse; cat; dog; chicken; sheep; immunosuppressive; antiarthritic; vasotropic; antirheumatic; antiproliferative; cytostatic; cardiant; neuroprotective; cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer; ophthalmological; vulnerary; gene therapy; autoimmune disease; neoplasm; hyperproliferative disorder; breast; liver; cardiovascular disorder; hyperproliferative disorder; breast; liver; cardiovascular disorder; fungal infection; viral infection; ocular disorder; endocrine disorder; gastrointestinal disorder; renal disorder; respiratory disorder; wound healing; skin aging; organ transplantation; food preservative; tissue regeneration; anti-infertility; food additive.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors
                                                                                                                                     07-JUL-2000;
11-JUL-2000;
11-JUL-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human cytoskeletal element-related polypeptide #40
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19-MAY-2000;
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17-MAR-2000;
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2000US-0215135P.

2000US-021664PP.

2000US-0216880P.

2000US-0214887P.

2000US-0217496P.

2000US-0217496P.

2000US-0217496P.

2000US-0218290P.

2000US-02282963P.
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2000US-0205515P
2000US-0209467P
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2000US-0224518P.
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2000US-0186350P
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83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 31; DB 3;
Pred. No. 1.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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Sequences AAU18508-AAU18551 represent the cytoskeletal element-related CC polypeptides of the invention. Cytoskeletal polypeptides and their CC associated polynuclectides are useful in the diagnosis, treatment and CC prevention of various types of disorders in e.g. humans, mice, rabbits, CC goats, horses, cats, dogs, chickens or sheep. A pathological condition CC can be determined by determining the presence or absence of a mutation in CC a cytoskeletal polynuclectide. The treatable disorders include autoimmune CC diseases such as rheumatoid arthritis, hyperproliferative disorders such as neoplasms of the breast or liver, cardiovascular disorders such as CC cardiac arrest, cerebrovascular disorders such as crebral ischaemia, nervous system disorders such as Alzheimer's disease, infections caused by bacteria, viruses and fungi, ocular disorders such as corneal confiction, endocrine disorders such as premature labour and infertility, gastrointestinal disorders such as gromature labour and infertility, as glomerulonephritis and respiratory disorders such as asthma. The polypeptides can also be used to aid wound healing, to prevent skin aging due to sunburn, to maintain organs before transplantation, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities.
          08-NOV-2000
08-NOV-2000
08-NOV-2000
08-NOV-2000
08-NOV-2000
08-NOV-2000
08-NOV-2000
17-NOV-2000
17-NOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel isolated human cytoskeletal element-related polypeptide useful for diagnosis/treatment of neoplastic disorders, disorders associated with neural transmission, chromosomal abnormalities, autoimmune disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HUMA-) HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001-476182/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barash
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000US-0246526P

2000US-0246528P

2000US-0246610P

2000US-0246611P

2000US-0249611P

2000US-0249201P

2000US-0249211P

2000US-0249211P

2000US-0249211P

2000US-0249211P

2000US-0249211P

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2000US-0249217P

2000US-024924P

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2000US-024924P

2000US-024926P

2000US-0259288P

2000US-02511868P

2000US-02511869P

2000US-02511869P

2000US-0251989P

2000US-0251989P

2000US-025199PP

2000US-025199PP

2000US-025199PP

2000US-025199PP

2000US-025199PP

2000US-025199PP

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2000US-025199PP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 94; 505pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SM;
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14-AUG-2000
14-AUG-2000
14-AUG-2000
14-AUG-2000
14-AUG-2000
14-AUG-2000
11-AUG-2000
12-AUG-2000
22-AUG-2000
22-AUG-2000
23-AUG-2000
20-SEP-2000
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21-SEP-2000
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23-SEP-2000
23-SEP

2000US-0225267P
2000US-022575P
2000US-022575P
2000US-022575P
2000US-022575P
2000US-022575P
2000US-022575P
2000US-022575P
2000US-0225686B
2000US-0227109P
2000US-0227109P
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2000US-02414180P
2000US-0244471P
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2000US-0244471P
2000US-0244677P
2000US-0246523P
2000US-0246523P

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RESULT 10
AAU51226
copolypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endopthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The colypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to chargulate expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as chargulatic agents for determining P. acnes presence, for example, by can patent did not form part of the printed specification, but was cobtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published pct sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           uveitis; endophthalmitis; bone; joint; central nervous system; E inflammatory lesion; acne vulgaris; enzyme linked immunosorbent dermatological; osteopathic; neuroprotectant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Skeiky YAW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-APR-2001; 2001WO-US012865
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Propionibacterium acnes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SAPHO syndrome; synovitis; acne;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Propionibacterium acnes immunogenic protein #12122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAU51226;
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                                                                                                                                                                                                                                                                                                          Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAS59551.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-616774/71.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L'maisonneuve
                                                                                                                                                                                                                                                                                                                                                           Example 1; SEQ ID NO 12421; 1069pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                 Propionibacterium acnes vaccinating against and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (CORI-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VGDIGD 74
                                                                                                                                                                                                                                                                                                                                                                                                acne vulgaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Persing DH,
e J, Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entry)
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                                                                                                                                                                                                                                                                                                                                                                                                               polypeptides and nucleic acids useful for diagnosing infections, especially useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ķ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mitcham JL, Wang S., Jen S, Carter D;

    Mismatches

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 31; DB 4;
Pred. No. 2.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  pustulosis; hypertosis; osteomyelitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Wang SS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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RESULT 11
ABM47745
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          밁
CC polypeptides encoded by the polymucleotides (ABM35624-ABM6436) and to CC immunogenic fragments of P. acnes polypeptides. The invention also relates to CC immunogenic fragments of P. acnes polypeptides. The invention CC additionally encompasses expression vectors and host cells comprising a CC polymucleotide of the invention; antibodies against polypeptides of the invention; a CC method for stimulating an immune response specific for a P. acnes CC polypeptide and an isolated T cell population comprising P. acnes polypeptides, antibodies, antibodies, fusion proteins, T cell populations, or CC polymucleotides, antibodies, fusion proteins, T cell populations, or CC polymucleotides, antibodies, fusion proteins, T cell populations, or CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient; and a method for inhibiting the development of P. acnes in a CC patient. The P. acnes polypeptides, polymucleotides, antibodies, fusion CC proteins, Total populations or antigen-presenting cells that express the polypeptides are useful for diagnosting, preventing or treating acnes composition is useful for the stimulation of an immune response specific for a P. acnes composition is useful for the stimulation of an immune response against P. acnes, or for treating acne, and the kit is useful for performing a diagnostic assay. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
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Zhang Y,
Barth B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 149 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Propionibacterium acnes predicted ORF-encoded polypeptide #12421.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-OCT-2002; 2002WO-US032727
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Acne vulgaris; antiseborrhoeic; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-OCT-2001; 2001US-00978825
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; SEQ ID NO 12421; 1481pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-381789/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CORI-) CORIXA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mmunostimulant; immune
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49 VGDIGD 54
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wang S, Jen S, Lod
Vallieve-Douglass J;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Skeiky YAW,
Jen S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               response;
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Lodes MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 31; DB 4;
Pred. No. 3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             vaccine
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Benson DR,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    antibacterial;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Maisonneuve JL;
Jones R, Carter D;
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RESULT 12
ADUI8521
ID MAU18
XX AAU18
XX AAU18
XX AAU18
XX Cytog
DE Human
XX Cytog
KW Cat;
KW cat;
KW ophth!
KW ophth!
KW hyper
KW cate
KW cytog
KW cate
KW cytog
KW cate
KW cytog
KW cate
KW cytog
KW ophth!
KW hyper
KW ophth!
KW hyper
KW cate
KW cytog
KW cate
KW cytog
KW ophth!
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Best Local Similarity
Matches 5; Conser
   31-JAN-2000
04-FEB-2000
24-FEB-2000
16-MAR-2000
11-MAR-2000
11-MAR-2000
19-MAY-2000
07-JUN-2000
07-JUN-2000
07-JUL-2000
07-JUL-2000
11-JUL-2000
11-JUL-2000
14-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytoskeletal element-related protein; human; mouse; rabbit; goat; horse; cat; dog; chicken; sheep; immunosuppressive; antiarthritic; vasotropic; antirheumatic; antiproliferative; cytostatic; cardiant; neuroprotective; cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer; ophthalmological; vulnerary; gene therapy; autoimmune disease; neoplasm; hyperproliferative disorder; prasst; liver; cardiovascular disorder; presst; liver; cardiovascular disorder; fungal infection; cular disorder; endocrine disorder; gastrointestinal disorder; renal disorder; respiratory disorder; gastrointestinal disorder; renal disorder; respiratory disorder; wound healing; skin aging; organ transplantation; food preservative; tissue regeneration; anti-infertility; food additive.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence represents a polypeptide predicted to be encoded by an (reading frame) contained within the P. across polypucleotides of trevention. Note: The sequence data for this patent did not form the printed specification, but was obtained in electronic format from WIFO at ftp.wipo.int/pub/published_pct_sequences
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06-DEC-2000;
08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
08-DEC-2000;
as glomerulonephritis and respiratory disorders such as as glomerulonephritis and respiratory disorders such as asthma. The polypeptides can also be used to aid wound healing, to prevent skin aging due to sumburn, to maintain organs before transplantation, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published pct sequences
                                                                                                                                                                                                                                           Sequences AAU18508-AAU18551 represent the cytoskeletal element-related polypeptides of the invention. Cytoskeletal polypeptides and their associated polymucleotides are useful in the diagnosis, treatment and prevention of various types of disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A pathological condition can be determined by determining the presence or absence of a mutation in a cytoskeletal polymucleotide. The treatable disorders include autoimmune
                                                                                                                               diseases such as rheumatoid arthritis, hyperproliferative disorders such as neoplasms of the breast or liver, cardiovascular disorders such as cardiac arrest, cerebrovascular disorders such as cerebral ischaemia, nervous system disorders such as Alzheimer's disease, infections caused by bacteria, viruses and fungi, ocular disorders such as corneal infection, endocrine disorders such as premature labour and infertility, gastrointestinal disorders such as Crohn's disease, renal disorders such as cropations.
                                                                                                                                                                                                                                                                                                                                                                                                           Novel isolated human cytoskeletal element-related polypeptide useful for diagnosis/treatment of neoplastic disorders, disorders associated with neural transmission, chromosomal abnormalities, autoimmune disorders.
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15-SEP-2000;
20-OCT-2000;
                                The invention relates to polynucleotides (AAK51456-AAK53435) and the encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopolesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system diagraes, arthritis and inflammation. Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666 (AAM80020) are omitted as the relevant pages from the content of the content of cancer.
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Ma Y,
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                                                                                                                                                                                                          Claim 20;
                                                                                                                                                                                                                                   Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
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Sequence 166 AA;
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Y, Zhao QA, w
Yang Y,
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2000US-00560875.

2000US-00598075.

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; 2000US-00693325.

; 2000US-00728422.
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                                                                                                                                                                                                                                                                                                                                                  Use of isolated gene or nucleic acid sequence, recombinant vector, host cell, non-human animal, polypeptide encoded by the nucleic acid sequence antibody, for screening of compounds for the treatment of pain, or fi
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07-FEB-2002; 2002GB-00002892.
            ADB75248;
                                 ADB75248 standard;
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animal.
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                                                                                                                                             Score 31; DB 6;
Pred. No. 3.3e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pain.
                                                                                                                                                                                                                                                                                                                                                                                                                                ζ,
                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                 Pinnock RD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>.</u>
                                                                                                                                    0;
                                                                                                                                                        Length 166;
                                                                                                                                    Indels
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                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                     sequence,
in, or for
                                                                                                                                    0
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RESULT 16
ADJ70104
ID ADJ70
XX ADJ70
XX ADJ70
XX ADJ70
XX ADJ70
XX ADJ70
XX Human
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Best Local Similarity
Watches 5; Conserv
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                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                  assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer by comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level of expression of the marker in the petient sample and the normal level of expression of the marker in the petient sample and the normal level indicates that the patient is afflicted with prostate cancer. Nucleic acids of the invention are useful for diagnosing or treating prostate cancer, and may be useful in gene therapy. Sequences given in ADB75.17-ADB75.611 represent marker cDNA and proteins. Note: The sequence data for this patent did not form part of the printed specification, but that the patient of cormat directly from WIPO at
            mitochondrial; human; screening assay; diabetes mellitus; Huntington's disease; osteoarthritis; Leber's hereditary optic neuropathy; LHON;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-JUL-2001; 2001US-0307982P.
22-AUG-2001; 2001US-0314356P.
25-SEP-2001; 2001US-0325020P.
12-DEC-2001; 2001US-0341746P.
05-MAR-2002; 2002US-0362158P.
                                                                          Human heat mitochondrial protein as a therapeutic target SeqID1910.
                                                                                                            06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                              Sequence 166 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to newly discovered cancer markers associated with the cancerous state of prostate cells. Also disclosed is a method of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-FEB-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003009814-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Prostate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-DEC-2003
                                                                                                                                                                     ADJ70104 standard; protein; 166 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New nucleic acid molecule, useful for diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-248033/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-JUL-2002; 2002WO-US023913
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Prostate; cancer; cytostatic; gene therapy; marker
                                                                                                                                                                                                                                                                                                                                                                                                          ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MILL-) MILLENNIUM PHARM
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                                                                                                                                                                                                                                                     VGDIGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer marker protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 72; 99pp; English.
                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Monahan
                                                                                                           (first entry)
 encephalopathy
                                                                                                                                                                                                                                                                                6
                                                                                                                                                                                                                                                     62
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                                                                                                                                                                                                                                                                                                               1;
                                                                                                                                                                                                                                                                                                                               Score 31; DB 7;
Pred. No. 3.3e+02;
 lactic
                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO, Gannavarapu∣
M, Glatt K, Zhao
 acidosis and stroke; MELAS;
                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                Length 166;
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2 χ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gorbatcheva B;
Anderson D;
                                                                                                                                                                                                                                                                                                                 0
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RESULT 17
ADI24536
ID ADI24
XX
AC ADI24
XX
DT 15-AF
DT 15-AF
XX
KW Chkl
KW Gene
XX
GS Homo
XX
Homo
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                        for therapeutic intervention in treating a disease associated with altered mitochondrial function. Specifically, it refers to a method for identifying proteins of the human heart mitochondrial proteome that are useful for drug screening assays, as well as therapeutic targets. The present invention describes a method for identifying such proteins that can be used in the treatment of various diseases associated with altered mitochondrial function including diabetes mellitus, Huntington's disease, osteoarthritis, Leber's hereditary optic neuropathy (LHON), mitochondrial encephalopathy lactic acidosis and stroke (MELAS), myoclonic epilepsy ragged red fibre syndrome (MERRF) or cancer. Accordingly, these compositions have neuroprotective, nootropic, antidlabetic, anticonvulsant, antiarthritic, osteopathic, ophthalmological and cytostatic activities. This polypeptide sequence is a human heart mitochondrial protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-APR-2002;
17-JUN-2002;
20-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying a mitochondrial target for drug screening assays and for treating diseases associated with altered mitochondrial function, comprises detecting a modified polypeptide in a sample and correlating with the disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       myoclonic epilepsy ragged red fibre syndrome; MERRF; cancer; neuroprotective; nootropic; antidiabetic; anticonvulsant; antiarthritic; osteopathic; ophthalmological; cytostatic.
                                                                                                                                                                                                                                                                                                                                                                               Sequence 166 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This invention relates to novel mitochondrial targets that can be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; SEQ ID NO 1910; 180pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-845369/78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  04-APR-2003; 2003WO-US010870.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
                                        Chk1 pathway modulating agent; modifier of Chk1; MCHK; gene therapy; cancer; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MITO-) MITOKOR.
                 Homo sapiens
                                                                                         Human modifier of Chk1 (MCHK) protein SEQ ID NO:86
                                                                                                                      15-APR-2004
                                                                                                                                                                              ADI24536 standard; protein; 166 AA.
                                                                                                                                                                                                                                                                                                                 Local Similarity nes 5; Conserv
                                                                                                                                                                                                                                                          57 VGDIGD 62
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                                                                                                                                                                                                                                                                                                                    Conservative
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2002US-0389987P.
2002US-0412418P.
                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                   96.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                    1;
                                                                                                                                                                                                                                                                                                                                    Score
Pred.
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                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                    31;
No.
                                                                                                                                                                                                                                                                                                                                    3.3e+02;
                                                                                                                                                                                                                                                                                                                                                  DB 7;
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                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                  Length 166;
                                                                                                                                                                                                                                                                                                                    Indels
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                                                           cytostatic;
                                                                                                                                                                                                                                                                                                                      0
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RESULT 18
AAU52312
ID AAU52
XX AU52
XX AU52
XX Propi
XX SAPHO
KW UVeit
KW infla
KW infla
KW derma
XX Propi
XX OS
PX OS
P

20-APR-2001; 2001WO-US012865.

01-NOV-2001

Propionibacterium dermatological;

osteopathic; acnes

WO200181581-A2

SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;

Propionibacterium acnes immunogenic protein #13208

27-FEB-2002 AAU52312;

(first entry)

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57 VGDIGD

62

0

AAU52312 standard; protein;

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                                                                                                                    The present invention describes a method for identifying a candidate Chkl can pathway modulating agent. The method comprises: (a) providing an assay comprises and comprises and assay comprises a modifier of Chkl (MCHK) polypeptide or nucleic acid; (b) contacting the system with a test agent, where the system provides a creference activity except in the presence of the test agent; and (c) contacting a test agent-biased activity, and a difference between the test agent-biased activity and the reference activity. Also described: (1) a composition of the described: (1) a composition of the described: (1) a composition of the described: (2) a method for modulating chkl pathway of a cell; (2) a method for modulating composition for diagnosing a composition of the present apathway. The method is useful for identifying a candidate contracting e.g., cancer. The present sequence represents a human MCHK protein, which is used in the exemplification of the present invention.
                               Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                       Identifying a candidate Chkl pathway modulating agent for treating e.g., cancer, comprises contacting an assay system comprising a MCHK polypeptide or nucleic acid with a test agent and detecting a test agent-biased activity.
                                                                                                                                                                                                                                                                                                                                                        Example; SEQ ID NO 86; 266pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-083465/08.
N-PSDB; ADI24486.
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                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hammonds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lickteig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Francis-Lang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-JUL-2002;
16-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2004004785-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (EXEL-)
 1 ignigh 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EXELIXIS INC
                               Similarity
5; Conserv
                                                                                            166 AA;
                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2002US-0394845P
2002US-0410986P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H, Roche S,
Amundsen CD,
                                               96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Joo
Jin
                                  Score 31; DB Pred. No. 3.3e 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ΥŅ,
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Adamkewicz
                              ა.3e+02;
ა.3e+02;
                                                               DB 8;
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                                                               Length 166;
                                    Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zhang
att DM;
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                                    Gaps
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ABM48831
ID ABM4
XX ABM4
XX ABM4
XX 20-C
XX Prog
XX Prog
XX ACDM
XX ACDM
XX ACDM
XX ACDM
XX WO20
PN WO21
PN WO21
PN XX 11-4
PF 11-4
XX 11-4
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                                                                                                                                                                                                                                                                                                                                                                   RESULT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC polypeptides. The proteins and their associated DNA sequences are used in CC the treatment, prevention and diagnosis of medical conditions caused by CP acnes. The disorders include SAPHO syndrome (synovitis, acne, compared by CC pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. CC pervous system, however it is particularly involved in the inflammatory CC lesions associated with acne vulgaris. A method for detecting the CC presence or absence of P. acnes in a patient comprises contacting a CC sample with a binding agent that binds to the proteins of the invention CC and determining the amount of bound protein in the sample. The CC polypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to CC downregulate expression and activity of P. acnes polypeptides and cC therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by C enzyme linked inmunosorbent assay (ELISA). Note: The sequence data for this patent did not form part of the printed specification, but was CC obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                        Acne vulgaris; antiseborrhoeic; dermatological; antibacterial; immunostimulant; immune response; vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic
 15-OCT-2001; 2001US-00978825
                                   11-OCT-2002; 2002WO-US032727.
                                                                                                         WO2003033515-A1
                                                                                                                                         Propionibacterium acnes.
                                                                                                                                                                                                                           Propionibacterium acnes predicted ORF-encoded polypeptide #13507
                                                                                                                                                                                                                                                               20-OCT-2003
                                                                                                                                                                                                                                                                                                 ABM48831;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                               ABM48831 standard; protein; 173 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
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                                                                                                                                                                                                                                                                                                                                                                                                                     102
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5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             173
                                                                                                                                                                                                                                                                                                                                                                                                                     IGDVGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                       IGDIGD
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Thang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                     107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          polypeptides and nucleic acids useful for diagnosing infections, especially useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mitcham JL, Wang SS,
, Jen S, Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 31; DB 4; Length 173; Pred. No. 3.5e+02; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bhatia
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RESULT 20
ADQ10039
ID ADQ10
XX
07-OCT-2004 (first entry)

ADQ10039;

ADQ10039 standard; protein; 201

variable major protein; VMP; VMP-like sequence; VLS; Lyme disease; relapsing fever; antibacterial; gene therapy; immunoprophylaxis; VMP antigenic variation system; pathogenic.

WO2004058181-A2 Borrelia afzelii B_afzelii ORF 13 protein product of the vls locus silent cassette Seq 83.

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1 IGDIGD 6 |||:|| 102 IGDVGD 107

S

Matches

Conservative

Indels

0,

Gaps

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The invention relates to an isolated polynucleotide (ACF64435-ACF64733) concoding a Propionibacterium acnes protein. The invention also relates to composition also relates to composition fragments of P. acnes polypeptides. The invention also relates to comprising a polypeptides. The invention and to composition fragments of P. acnes polypeptides. The invention accomprising a polypeptide of the invention; antibodies against polypeptides of the composition; a method for stimulating an immune response specific for a P. acnes composition (comprising P. acnes polypeptides, polypeptide and an isolated T cell population comprising P. acnes polypeptides, composition; a method for stimulating an immune response specific for a P. acnes composition (comprising P. acnes polypeptides, polypucleotides, antibodies, fusion proteins, T cell populations, or antigen-presenting cells that express the polypeptide); a method and kit for detecting or determining the presence or absence of P. acnes in a patient. The P. acnes polypeptides, polymucleotides, antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the polypeptides are useful for diagnosing, preventing or treating acne compositions, or nucleic acid hybridisation. The vaccine composition is useful for the stimulation of an immune response specific for a P. acnes for nucleic acid hybridisation. The vaccine composition is useful for the stimulation of an immune response specific for a P. acnes for concluding frame) contained within the P. acnes polymucleotides of the convertion. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp. wipo.int/pub/published_pct_sequences
                                                                                              Query Match
                                                                                           Sequence 173 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 1; SEQ ID NO 13507; 1481pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mitcham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CORI-) CORIXA CORP
l Similarity
5; Conserva
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Vallieve-Douglass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Skeiky YAW,
ung S, Jen S,
                       96.9%;
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Lodes MJ,
188 J;
  Score 31; DB 6;
Pred. No. 3.5e+02;
1; Mismatches 0
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Benson DR,
                                            DB 6; Length 173
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Jones R, Carter
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ARBSULT 21
AAU18546
ID AAU18546
AC AAU18
XX AU18
AC AAU18
XX C1-NC
DT 21-NC
DX Humar
XX Cytos
KW Cat;
KW carii
KW carii
KW antii
KW antii
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KW bypes
KW cereb
KW tiss
KW thypes
KW tiss
KW thypes
KW tiss
KW Garii
KW wounn
KW tiss
XX Homo
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XX Homo
PN WO20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel nucleic acid molecules isolated from CC pathogenic Borrelia bacteria that each encode a variable major protein CC (VMP)-like sequence (VLS) peptide. Specifically, it refers to recombinant CC VLS genes and immunogenic compositions derived thereof, from Borrelia CC parinii (B. gazinii) and Borrelia afzelii (B. afzelii). The present CC invention describes the use of antibodies against the expressed VLS CC proteins where immunologic binding is indicative of a Borrelia infection, CC in particular infections that include Lyme disease, relapsing fever or CC related diseases in humans and animals. Accordingly, these antibacterial CC compositions can be used for gene therapy, immunoprophylaxis, diagnosis CC or treatment of such diseases, which due to the VMP antigenic variation CC system often evade the immune system response despite the occurrence of host antibody and cellular responses. This polypeptide is a protein CC encoded by a Borrelia afzelii strain ACAI open reading frame DNA sequence of from the vis locus silent cassette of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local (
                                                                           cytoskeletal element-related protein; human; mouse; rabbit; goat; horse; cat; dog; chicken; sheep; immunosuppressive; antirhritic; vasotropic; antirheumatic; antiproliferative; cytostatic; cardiant; neuroprotective; cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer; ophthalmological; vulnerary; gene therapy; autoimmune disease; neoplasm; hyperproliferative disorder; breast; liver; cardiovascular disorder; cerebrovascular disorder; nervous system disorder; bacterial infection; fungal infection; viral infection; ocular disorder; emdocrine disorder; gastrointestinal disorder; renal disorder; respiratory disorder; wound healing; skin aging; organ transplantation; food preservative; tissue regeneration; anti-infertility; food additive.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated nucleic acid molecules encoding Variable Major Protein-like polypeptides of Borrelia, useful for diagnosing, preventing or treating Borrelia infections such as Lyme disease or relapsing fever.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 22; SEQ ID NO 83; 182pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-DEC-2003; 2003WO-US041182.
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                                                                                                                                                                                                                                               Human cytoskeletal element-related polypeptide #39.
                                                                                                                                                                                                                                                                         21-NOV-2001 (first entry)
                                                                                                                                                                                                                                                                                                      AAU18546;
                                                                                                                                                                                                                                                                                                                               AAU18546 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 201 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (TEXA ) UNIV TEXAS SYSTEM.
  02-AUG-2001
                             WO200155168-A1
                                                       Homo sapiens.
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DB; ADQ10038.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Score 31; DB
; Pred. No. 4e+0
1; Mismatches
                                                                                                                                                                                                                                                                                                                                  205
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4e+02;
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2000US-019874P.
2000US-019813P.
2000US-019813P.
2000US-019813P.
2000US-0205467P.
2000US-021686P.
2000US-021689P.
2000US-021689P.
2000US-0225214P.
2000US-0225214P.
2000US-0225214P.
2000US-0225214P.
2000US-0225214P.
2000US-0225214P.
2000US-022526P.
2000US-022526P.
2000US-022526P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-022578P.
2000US-023144P.
2000US-0231243P.
2000US-02333064P.
2000US-02333064P.
2000US-0233336P.
2000US-023366P.
2000US-023366P.

26-JUL-2000; 26-JUL-2000; 14-AUG-2000;

16-MAR-2000; 17-MAR-2000; 18-APR-2000; 19-MAY-2000;

> 2001WO-US001331 2000US-0179065P 2000US-0180628P 2000US-0184664P 2000US-0186350P

14-AUG-2000; 14-AUG-2000; 14-AUG-2000; 14-AUG-2000;

18-AUG-2000 22-AUG-2000 22-AUG-2000 22-AUG-2000 23-AUG-2000 30-AUG-2000 01-SEP-2000 01-SEP-2000 06-SEP-2000 06-SEP-2000 06-SEP-2000 08-SEP-2000 08-SEP-2000 08-SEP-2000 08-SEP-2000 14-SEP-2000 21-SEP-2000
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29-SEP-2000
22-CCT-2000
02-CCT-2000
03-NOV-2000
04-NOV-2000
08-NOV-2000
01-NOV-2000
01-NOV
   WPI; 2001-476182/51.
N-PSDB; AAS29808.
                                                                                                                                                                       HUMAN
                                                                                                    Barash SC,
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2000US-0236802P

2000US-0236902P

2000US-0237039P

2000US-0239370

2000US-0240960P

2000US-0241786P

2000US-0241808P

2000US-02441808P

2000US-024418126P

2000US-0246478P

2000US-0246478P

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2000US-024610P

2000US-0246610P

2000US-0246610P

2000US-0249213P

2000US-025118P

2000US-02518P

2000US-0254677P

2000US-0254677P

2000US-0254677P

2000US-0254677P

2000US-0254677P

2000US-0254677P

2000US-025467
                                                                                                                                                                       GENOME
                                                                                                                                                                       SCI INC
                                                                                                        , MS
RESULT 22
AAM79529
ID AAM79
XX AAM79
AC AAM79
AC AAM79
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XX Humar
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XX H
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Best Local
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                                                                                              03-FEB-2000; 2000US-00496914.
27-APR-2000; 2000US-00560875.
20-JUN-2000; 2000US-00598075.
19-JUL-2000; 2000US-00620325.
01-SEP-2000; 2000US-00654936.
15-SEP-2000; 2000US-0069325.
20-CCT-2000; 2000US-0069325.
30-NOV-2000; 2000US-00728422.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   as glomerulonephritis and respiratory disorders such as glomerulonephritis and respiratory disorders such as asthma. The polypeptides can also be used to aid wound healing, to prevent skin aging due to sunburn, to maintain organs before transplantation, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     goats, horses, cats, dogs, chickens or sheep. A pathological condition can be determined by determining the presence or absence of a mutation in a cytoskeletal polymuclectide. The treatable disorders include autoimmune diseases such as rheumatoid attrictis, hyperproliferative disorders such as neoplasms of the breast or liver, cardiovascular disorders such as cardiac arrest, cerebrovascular disorders such as cerebral ischaemia, nervous system disorders such as Alzheimer's disease, infections caused by bacteria, viruses and fungi, ocular disorders such as corneal infection, endocrine disorders such as premature labour and infertility, gastrointestinal disorders such as Crohn's disease, renal disorders such as gastrointestinal disorders such as Crohn's disease, renal disorders such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             associated polynucleotides are useful in the diagnosis, treatment and prevention of various types of disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequences AAU18508-AAU18551 represent the cytoskeletal element-related polypeptides of the invention. Cytoskeletal polypeptides and their associated polynucleotides are useful in the diagnosis transfer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; cytokine; cell proliferation; cell differentiation; gene th vaccine; peptide therapy; stem cell growth factor; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-NOV-2001 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human
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                                                                                                                                                                                                                                                                                                                                                                                                         05-FEB-2001; 2001WO-US004098
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200157190-A2.
                                  (HYSE-) HYSEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein SEQ ID NO 3175.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           system disorder; arthritis; inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; protein; 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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Pred. No. 4.1e+02;
1; Mismatches 0
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Length 205; Indels

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Gaps

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therapy;

Rosen CA,

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RESULT 23
ADQ10053
ID ADQ10
XX ADQ10
XX ADQ10
XX VAI
DT 07-O7
XX VAI
KW VAI
KW VAP
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Ma Y, ,
`e AJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding polypeptides with cytokine-like activities, useful in diagnosis and gene therapy.
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N-PSDB; AAK52662.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Borrelia afzelii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      variable major protein; VMP; VMP-like sequence; VLS; Lyme disease; relapsing fever; antibacterial; gene therapy; immunoprophylaxis; VMP antigenic variation system; pathogenic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B_afzelii strain ACAI vls 13
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N-PSDB; ADQ10052.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-2002; 2002US-0435077P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004058181-A2
                                                                          New isolated nucleic acid molecules encoding Variable Major polypeptides of Borrelia, useful for diagnosing, preventing Borrelia infections such as Lyme disease or relapsing fever.
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K, Zhao QA,
AJ, Yang Y,
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1; Mismatches
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J, Zhang J
Goodrich R;
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odrich R;
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J, Ren 1
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Claim 22; SEQ ID NO

97; 182pp; English

The invention relates to a recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene. The construct is useful for transgenic plant seed which has in its genom the construct, that is functional in the plant to transcribe the oil-

in its genome the oil-

Disclosure;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel nucleic acid molecules isolated from pathogenic Borrelia bacteria that each encode a variable major protein (VMP) like sequence (VLS) peptide. Specifically, it refers to recombinant VLS genes and immunogenic compositions derived thereof, from Borrelia garinii (B. garinii) and Borrelia afzelii (B. afzelii). The present invention describes the use of antibodies against the expressed VLS proteins where immunologic binding is indicative of a Borrelia infection, in particular infections that include Lyme disease, relapsing fever or related diseases in humans and animals. Accordingly, these antibacterial compositions can be used for gene therapy, immunoprophylaxis, diagnosis or treatment of such diseases, which due to the VMP antigenic variation system of ten evade the immune system response despite the occurrence of host antibody and cellular responses. This polypeptide is the Borrelia afzelii strain ACAI vls ORF 13 protein expressed by the pBA-13-1 plasmid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   maize, plant; oil-associated gene; transgenic; enhanced seed oil; vegetable oil.
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26-JUN-2002; 2002US-0391786P.
26-JUN-2002; 2002US-0392018P.
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                                                                                                                                                                                                           Novel recombinant DNA construct comprising a promoter functional in plants operably linked to an oil-associated gene for producing trans
                                                                                                                                                                                                                                                                                                                                             Laurie
                                                                                                                                                                                                                                                                                        WPI; 2004-142683/14.
                                                                                                                                                                                                                                                                                                                                                                                                                           (SAVA/)
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5; Conserv
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RAVANELLO M.
SAVAGE T.
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|GDVGD 51
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Pred. No. 4.4e
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Best Local &
              The invention relates to a recombinant DNA construct comprising a promoter functional in a plant cell, where the promoter is positioned to provide for expression of a polymucleotide encoding a polymeptide from a microbial source. The invention also relates to a transformed plant comprising the recombinant DNA construct and a method of producing a transformed plant having an improved property. The plant is a crop plant such as maize or soybean. The method of producing a transformed plant having an improved property comprises transforming a plant with the recombinant DNA construct and growing the transformed plant, where the polymucleotide or polypeptide is useful for improving plant properties. The recombinant DNA construct is useful for producing plants with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    producing producing
                                                                                                                                                                                                                                                                                                                                                                                                                              New recombinant DNA construct comprising a promoter positioned to provide for expression of a polynucleotide encoding a polypeptide from a microbial source, useful for producing plants with improved properties.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Recombinant DNA construct; transformed plant; improved plant property; delt tolerance; heat tolerance; drought tolerance; herbicide; osmosis; pathogen tolerance; pest tolerance; plant disease resistance; cell cycle pathway modification; plant growth regulator; homologous recombination; seed oil yield; protein yield; carbohydrate;
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HINKLE G J.
SLATER S C.
CHEN X.
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polypeptide.
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Pred. No.
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6.9e+02;
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drought tolerance
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RESULT 28
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ID ADS2
XX ADS22843
AC ADS2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Recombinant DNA construct; transformed plant; improved plant property; cold tolerance; heat tolerance; drought tolerance; herbicide; osmosis; pathogen tolerance; pest tolerance; plant disease resistance; pathogen tolerance; plant growth regulator; cell cycle pathway modification; plant growth regulator; homologous recombination; seed oil yield; protein yield; carbohydrate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tolerance to herbicides, extreme osmotic conditions, pathogens increased resistance to plant disease, better growth rate by most the cell cycle pathway with plant growth regulators, increased the cell cycle pathway with plant growth regulators.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nitrogen;
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(SLAT/)
(CHEN/)
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The invention relates to a recombinant DNA construct comprising a promoter functional in a plant cell, where the promoter is positioned to provide for expression of a polynucleotide encoding a polyneptide from a microbial source. The invention also relates to a transformed plant

New recombinant DNA construct comprising a promoter positioned to provide for expression of a polynucleotide encoding a polypeptide from a microbial source, useful for producing plants with improved properties.

SEQ ID NO 11876; 122pp; English.

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RESULT 27
AAB22942
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse GANP protein.
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                                                                                                                                                                                                                                                                                                                                                 GANP proteins participating in signal conversion of abnormal B cell differentiation in autoimmune state and having kinase activity, use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sakaguchi N, Kuwahara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-AUG-2000
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                         This sequence represents mouse GAMP protein. The invention relates to the mosue and human GAMP proteins (AAB22942, AAB22943) which are 210 kD in size, have kinase activity and participate in signal transduction during abnormal B cell differentiation. The invention also encompasses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24-FEB-1999;
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                                                                                                                                                                                                                                      Claim 1; Page 58-67; 91pp; Japanese.
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Mouse; CALLP; autoimmune disease.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        against GANP proteins. GANP proteins may be used mechanisms involved in autoimmune disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1971 AA;
                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-313371/33.
N-PSDB; AAH25842.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Murine SHD1 related protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB98974;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB98974 standard; protein; 1971
                                                                                                                                                                                                                             Sequence 1971 AA;
                                                                                                                                                                                                                                                   AAB98973. This protein can be used for controlling diffe activation of germ centre B cells. The present sequence in the exemplification of the invention
                                                                                                                                                                                                                                                                           The present invention relates to the murine SHD1 protein shown in AAB98973. This protein can be used for controlling differentiation and
                                                                                                                                                                                                                                                                                                          Claim 2; Page 8-13; 16pp;
                                                                                                                                                                                                                                                                                                                               SHD1 protein useful for controlling the differentiation germ center B cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-MAR-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JP2001078778-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mouse; SHD1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                     17-SEP-1999;
                    Murine CALLP related protein
                                          20-AUG-2001
                                                                AAB98957;
                                                                                    AAB98957 standard;
                                                                                                                                                                                                                                                                                                                                                                                                (SUME ) SUMITOMO ELECTRIC IND
                                                                                                                                                                                             Local Similarity
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5; Conserv
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                                                                                                                                                                σ
                                                                                   protein;
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83.3%;
                                                                                                                                                                                              96.9%;
                                                                                                                                                                                                                                                                                                           Japanese.
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                                                                                                                                                                                    Score 31; DB
Pred. No. 4.2e
1; Mismatches
                                                                                     1971 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 31; DB 3;
Pred. No. 4.2e+03;
1; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  germ centre B cell.
                                                                                                                                                                                                                                                                                                                                                                                                  8
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                                                                                                                                                                                                 4.2e+03;
                                                                                                                                                                                                           DB 4;
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                                                                                                                                                                                      Indels
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RESULT 30
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Best Local Similarity
Matches 5; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
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                        Transgenic mammal transformed with germinal center associated nuclear protein (GANP) gene for production of high-affinity antibodies as diagnostic reagents and disease therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention provides a murine protein, designated CALPP and shown in AAB9896. This can be used for the treatment or detection of autoimmune diseases. The present sequence is a protein used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            germinal center associated nuclear protein; GANP; antibody; virus infection; human immunodeficiency virus; hepatitis C virus.
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                                                                                                                                                                                                              Sakaguchi N;
                                                                                                                                                                                                                                                                                                                07-NOV-2002; 2002WO-JP011598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            virucide; viral antigen inhibitor; transgenic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mouse germinal center associated nuclear protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2001-313372/33
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                                                                                                                                                                                                                                                                                                                                                                 07-NOV-2003; 2003WO-JP014221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004040971-A1
                                                                                                                                                                                                                                                                (IMMU-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (SUME ) SUMITOMO ELECTRIC IND
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                                                                                                                                                           2004-411378/38
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 IGDIGD
                                                                                                                                                                                                                                                                IMMUNOKICK INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH25794.
                                                                                                                                   AD031143.
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Pred. No.
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4.2e+03;
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Best Local
                        Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogeni polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnost of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and ostcomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a patient comprises contacting a sample with a binding agent that binds to the proteins of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to transgenic non-human animals and their offspring which are transformed with germinal center associated nuclear protein (GANP) gene. The GANP gene, encoded protein and transgenic animals express GANP can be used for the production of high-affinity antibodies to viral antigens for treatment and prevention of infection by viruses such as human immunodeficiency virus and hepatitis C virus. This sequence
                                                                                                                                                                                                                                                                                                                                                                                                           Propionibacterium acnes polypeptides and nucleic acids useful for vaccinating against and diagnosing infections, especially useful for treating acne vulgaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-616774/71.
N-PSDB; AAS59663.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
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                                                                                                                                                                                                                                                                                                                                                    Example 1; SEQ ID NO 26477; 1069pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-APR-2001; 2001WO-US012865.
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5; Conserv
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   the amount of
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Zhang Y,
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, Jen S, Carter
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Pred. No. 4.2e
1; Mismatches
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bound protein
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4.2e+03;
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                                                                                                                                                                                                                                                                  are used in
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Matches
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Best Local
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The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates to polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention, antibodies against polypeptides of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated T cell population comprising P. acnes polypeptides, antibodies, fusion proteins, T cell populations, or antigen-presenting cells that express the polypeptide); a method and kit for detecting or determining the presence or absence of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a
                                                                                                                                                                                                                                                                                                                                                                                                                                 Mitcham JL, Skeiky YAW, Pe
Zhang Y, Wang S, Jen S, I
Barth B, Vallieve-Douglass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 58 AA;
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                                                                                                                                                                                                                                                                       Example 1; SEQ ID NO 26477; 1481pp; English.
                                                                                                                                                                                                                                                                                                      New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Acne vulgaris;
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5; Conser
                                                                                                                                                                                                                                                                                                                                                                               ACF64592.
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83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            response;
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Lodes MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 30; DB Pred. No. 1.8e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                      9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              vaccine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bhatia A,
Benson DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.8e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Maisonneuve JL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Jones
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AAU59294
ID AAU
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the polypeptides are useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein. The polynucleotides can also be used as probes or primers for nucleic acid hybridisation. The vaccine composition is useful for the stimulation of an immune response against P. acnes, or for treating acne, and the kit is useful for performing a diagnostic assay. The present sequence represents a polypeptide predicted to be encoded by an ORF (open reading frame) contained within the P. acnes polynucleotides of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from wrop as free wine in the house of the printed specification, but was obtained in electronic format directly
                                                                                                                                                                                                WPI; 200
N-PSDB;
                                                                                                                                                                                                                                                                                                            21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SAPHO syndrome; synovitis; acne; uveitis; endophthalmitis; bone;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 58
                                                                                                                                                    Propionibacterium acnes
                                                                                                                                                                                                                                                        Skeiky YAW,
                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Propionibacterium acnes.
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                                                                                                                                                                                                                                                                                                                                                                       20-APR-2001; 2001WO-US012865
                                                                                                                                       vaccinating against and
treating acne vulgaris.
                                                                                                                                                                                                                                                                                  (CORI-) CORIXA CORP.
                                                                                                                                                                                                2001-616774/71.
DB; AAS59601.
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                                                                                                                                                                                                                                         Zhang
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                                                                                                                                                                                                                                                       DH,
                                                                                                                                                                                                                                           ĸ
                                                                                                                                                    polypeptides and nucleic acids useful for diagnosing infections, especially useful:
                                                                                                                                                                                                                                         Mitcham JL, Wang SS,
, Jen S, Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 30; DB 6; Le
Pred. No. 1.8e+02;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pustulosis; hypertosis; osteomyelitis; joint; central nervous system; ELISA;
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                                                                                                                                                                                                                                                          Bhatia
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Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogen polypeptides. The proteins and their associated DNA sequences are used the treatment, prevention and diagnosis of medical conditions caused by p. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central P. acnes is also involved in infections of bone, joints and the central P. acnes is also involved in infections of bone.

Example 1; SEQ ID NO 20489;

1069pp; English.

immunogenic are used in

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ARMSSULT 34
ARMS5813
ID ARMS58
XX ARMS58
XX ARMS5
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XX ARMS5
XX ACAG
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The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates to polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention; antibodies against polypeptides of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated T cell population comprising P. acnes polypeptides, a vaccine composition (comprising P. acnes polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mitcham JL, Skeiky YAW, Pers
Zhang Y, Wang S, Jen S, Lod
Barth B, Vallieve-Douglass J;
                                                                                                                                                                                                                                                                                                                                                                                                                             New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Propionibacterium acnes predicted ORF-encoded polypeptide #20489
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Skeiky YAW, Persing DH, ng S, Jen S, Lodes MJ,
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Pred. No. 2.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bhatia A,
Benson DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Benson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Maisonneuve JL;
Jones R, Carter
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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                                                                                                                                                                                                                                                                       New isolated nucleic acids kandleri proteins, and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-MAR-2002; 2002US-0361742P.
14-MAY-2002; 2002US-0380423P.
16-SEP-2002; 2002US-0410974P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hyperthermophile; protein stability enhancement; protein activity enhancement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-MAY-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADM27005 standard; protein; 87 AA.
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                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; ADM27081.
                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-748383/70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Slesarev AI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    04-MAR-2003; 2003WO-US006664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Methanopyrus kandleri.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hyperthermophile Methanopyrus kandleri protein #1611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (FIDE-) FIDELITY SYSTEMS (MALY/) MALYKH A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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71 VGDVGD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ignign 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pavlov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pavlova
                                                                                                                                                                                                                                                                       encoding any of about 1700 Methanopyrus encoded proteins, useful as a medicamen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kozyavkin S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.4e+02;
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                                                                                                                                                                                                                                                                             useful as a medicaments
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The invention comprises the amino acid sequence of proteins from the hyperthermophile Methanopyrus kandleri, the invention also comprises the complete genome from Methanopyrus kandleri. The Methanopyrus kandleri proteins of the invention are useful for enhancing the stability and/or activity of other proteins. The Methanopyrus kandleri genome is useful in

is useful in

as diagnostic agents.

SEQ ID NO 1611; 1023pp; English.

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The present invention describes a nucleic acid molecule (I) selected from CC DP119, DP444, DP810, DP685, WE474, DP160, RA977 and RA770, or its encoded CC polypeptide, or a fragment or variant of the nucleic acid or polypeptide, (CC or an effector/modulator of the nucleic acid or polypeptide. (I) is used CC in manufacturing a pharmaceutical agent, in monitoring or controlling the CC function of a gene or gene product influenced or modified by a DP119, CC DP444, DP810, DP685, WE474, DP160, RA977 or RA770 polypeptide. (I) has CC in gene therapy. (I) is useful for diagnostic or therapeutic CC applications, or for manufacturing an agent for diagnosts, monitoring, CC prevention or treatment of pancreatic disorders, such as diabetes and CC related disorders, as well as neurodegenerative disorders and other CC treatment, alleviation and/or prevention, of a pancreatic dysfunction CC (e.g. diabetes, hyperglycaemia or impaired glucose tolerance), and CC others, in cells, cell masses, organs and/or subjects. It is also used CC for regenerating or for promoting the differentiation and/or function of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a variety of diagnostic and analytical methods. The present amino acid sequence represents a Methanopyrus kandleri protein of the invention.
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                                                                                                                                                                                                                                                                                                                                                                     Use of DP119, DP444, DP810, DP685, WE474, DP160, RA977 or RA770 nucleic acid molecules or polypeptides, or their effectors or modulators, for manufacturing an agent for the diagnosis, prevention or treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DP119; DP444; DP810; DP685; WE474; DP160; RA977; RA770; antidiabetic; anorectic; neuroprotective; gene therapy; pancreatic disorder; diabetes neurodegenerative disorder; hyperglycaemia; impaired glucose tolerance;
                                                                                                                                                                                                                                                                                                                           Claim 3;
                                                                                                                                                                                                                                                                                                                                                         pancreatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAY-2002;
17-SEP-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (DEVE-) DEVELOGEN ENTWICKLUNGSBIOLOGISCHE FORSCH.
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DB; ADE43917.
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                                                                                                                                                                                                                                                                                                                          SEQ ID NO 28; 125pp; English
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                                                                                                                                                                                                                                                                                                                                                           disorders.
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2002EP-00020829.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Methanopyrus kandleri protein

    Mismatches

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Pred.
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RESULT 37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     non-human animal which over- or under-expresses the DP119, DP444, DP810 DP685, WE4774, DP160, RA977 or RA770 gene product. In addition, the nucleic acid molecule, polypeptide or an effector/modulator of the nucleic acid or polypeptide, is used in monitoring or controlling the function of a gene or gene product influenced or modified by a DP119, DP444, DP810, DP685, WE474, DP160, RA977 or RA770 polypeptide, or in identifying substances that interact with the polypeptide. The present sequence is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
Sequences AAU39105-AAU68017 represent Propionibacterium acnes immunogenic polypeptides. The proteins and their associated DNA sequences are used in the treatment, prevention and diagnosis of medical conditions caused by P. acnes. The disorders include SAPHO syndrome (synovitis, acne, pustulosis, hypertosis and osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in infections of bone, joints and the central nervous system, however it is particularly involved in the inflammatory lesions associated with acne vulgaris. A method for detecting the presence or absence of P. acnes in a partient comprises contacting a sample with a binding agent that binds to the proteins of the invention and determining the amount of bound protein in the sample. The
                                                                                                                                                                                                                                                                                                                                                                                                                             21-APR-2000; 2000US-0199047P.
02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Propionibacterium acnes immunogenic protein #24266.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAU63370 standard; protein; 127
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                                                                                                                                                                                                                                              Propionibacterium acnes vaccinating against and
                                                                                                                                                                                                                                                                                               N-PSDB; AAS59633.
                                                                                                                                                                                                                                                                                                                                                L'maisonneuve
                                                                                                                                                                                                                                                                                                                                                             Skeiky YAW, Persing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-APR-2001; 2001WO-US012865.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200181581-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Propionibacterium acnes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-FEB-2002 (first entry)
                                                                                                                                                                                                  Example 1; SEQ ID NO 24565;
                                                                                                                                                                                                                                                                                                                                                                                                 (CORI-) CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            osteopathic;
                                                                                                                                                                                                                                                                                                                                                ing DH, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           93.8%;
                                                                                                                                                                                                                                               polypeptides and nucleic acids useful for diagnosing infections, especially useful
                                                                                                                                                                                                                                                                                                                                                Mitcham C
, Jen S,
                                                                                                                                                                                                1069pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 30; DB Pred. No. 3.8e 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or under-expresses the DP119, D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neuroprotectant.
                                                                                                                                                                                                                                                                                                                                                JL, Wang S
, Carter D;
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)P444, DP810,
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encoding a Propionibacterium acnes protein. The invention also relates to polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention; antibodies against polypeptides of the invention; fusion proteins comprising a polypeptide of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated T cell population comprising T cells prepared via this method; a vaccine composition (comprising P. acnes polypeptides, antibodies, fusion proteins, T cell populations, or antigen-presenting cells that express the polypeptide); a method and kit for detecting or determining the presence or absence of P. acnes in a patient; and a method for inhibiting the development of P. acnes in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides may be used as antigens in the production of antibodies specific for P. acnes proteins. These antibodies can be used to downregulate expression and activity of P. acnes polypeptides and therefore treat P. acnes infections. The antibodies may also be used as diagnostic agents for determining P. acnes presence, for example, by enzyme linked immunosorbent assay (BLISA). Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an isolated polynucleotide (ACF64435-ACF64733)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 1;
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Vallieve-Douglass
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ang S, Jen S
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Lodes MJ,
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1; Mismatches
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. 3.9e+02;
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Benson DR,
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Jones R, Carter
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Zhang Y, Wa
Barth B, Va
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                        The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates to polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention; antibodies against polypeptides of the invention; a method for stimulating an immune response specific for a P. acnes polypeptide and an isolated T cell population comprising T cells prepared via this method; a vaccine composition (comprising P. acnes polypeptides.
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                                                                                                                                                                                                                                                                                                                                                                      Claim 7;
                                                                                                                                                                                                                                                                                                                                                                                                                           polypeptide, useful or for stimulating a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-381789/36.
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Vallieve-Douglass
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ang S, Jen S,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                        nosing, preventing response specific
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Benson DR,
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Jones R, Ca
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polynucleotides,

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RESULT 40
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Best Local
  polypeptides. The the treatment, p. acnes. The d
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02-JUN-2000; 2000US-0208841P.
07-JUL-2000; 2000US-0216747P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis; uveitis; endophthalmitis; bone; joint; central nervous system; ELISA; inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay; dermatological; osteopathic; neuroprotectant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 127
the
P. (
                                                                                                                                                                                                                            Propionibacterium acnes vaccinating against and
                                                                                                                                                                                                                                                                                                                                            WPI; 2001-616774/71
                                                                                                                                                                                                                                                                                                                                                                                              Skeiky YAW, Persing DH, L'maisonneuve J, Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-APR-2001; 2001WO-US012865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Propionibacterium acnes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Propionibacterium acnes immunogenic protein #26724.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-FEB-2002 · (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAU65828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAU65828 standard; protein; 261 AA
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                                                                                                                                          Example 1; SEQ ID NO 27023; 1069pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORIXA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IGDIGD 6
                                                                                                                                                                                                  acne vulgaris.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IGDLGD 103
AAU39105-AAU68017 represent Propionibacterium acnes immunogenic des. The proteins and their associated DNA sequences are used in ment, prevention and diagnosis of medical conditions caused by The disorders include SAPHO syndrome (synovitis, acne,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         93.8%;
                                                                                                                                                                                                                            polypeptides and nucleic acids useful for diagnosing infections, especially useful
                                                                                                                                                                                                                                                                                                                                                                                                 Ķ
                                                                                                                                                                                                                                                                                                                                                                            Mitcham JL, wany S. Carter D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 30; DB Pred. No. 3.9e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NO ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JB (,
3.9e+02;
0;
                                                                                                                                                                                                                                                                                                                                                                                                                              SS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 127;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Bhatia
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밁 Ś

The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates t polyneptides encoded by the polynucleotides (ABM35624-ABM64538) and to immunogenic fragments of P. acnes polypeptides. The invention additionally encompasses expression vectors and host cells comprising a polynucleotide of the invention; antibodies against polypeptides of the invention; antibodies against polypeptides of the invention; as a polynucleotide of the invention of the invention.

Example 1; SEQ ID

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27023; 1481pp; English.

acnes protein. acne vulgaris,

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ABM62347
ID ABM62347
ID ABM62347
AC ABM62
AC ABM62
XX ACNE
DT 20-00
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EW Immur
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XX III-
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cc P. acnes is also involved in infections of bone, joints and the central
cc nervous system, however it is particularly involved in the inflammatory
cc lesions associated with acne vulgaris. A method for detecting the
cc presence or absence of P. acnes in a patient comprises contacting a
cc sample with a binding agent that binds to the proteins of the invention
cc and determining the amount of bound protein in the sample. The
cc polypeptides may be used as antigens in the production of antibodies
cc specific for P. acnes proteins. These antibodies can be used to
cc downregulate expression and activity of P. acnes polypeptides and
cc therefore treat P. acnes infections. The antibodies may also be used as
cc diagnostic agents for determining P. acnes protein, by
cc enzyme linked immunosorbent assay (ELISA). Note: The sequence data for
cc this patent did not form part of the printed specification, but was
cc obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mitcham ,
Zhang Y,
Barth B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                             New Propionibacterium acnes polypeptides and polynucleotides encoding polypeptide, useful for diagnosing, preventing or treating acne vulgar or for stimulating an immune response specific for a P. acnes protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Propionibacterium acnes predicted ORF-encoded polypeptide #27023
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                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2003033515-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Propionibacterium acnes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immunostimulant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cne vulgaris; antiseborrhoeic; dermatological; antibacterial;
                                                                                                                                                                                                                                                                                                                                                                                                2003-381789/36.
DB; ACF64624.
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4; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; protein; 261 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wang S, Jen S, I
Vallieve-Douglass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Skeiky YAW, Persing DH, ng S, Jen S, Lodes MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             immune
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Pred. No. 8.2e
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bhatia A,
Benson DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Maisonneuve JL;
Jones R, Carte
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RESULT 42
ABG14312
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Best Local
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                                                                                                     New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                                                      WPI; 2001-639362/73.
N-PSDB; AAS78499.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 31-MAR-2000; 2000US-00540217.
23-AUG-2000; 2000US-00649167.
       Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ABG14312 standard; protein; 275
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HYSE-) HYSEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  n; chromosome mapping; gene mapping; gene therapy; forensic;
supplement; medical imaging; diagnostic; genetic disorder.
       20;
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VGDVGD 26
       SEQ
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       IJ
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44671; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                            Tang
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Pred. No. 8.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                 mutations
o assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping,

gene mapping,

Claim 18; Page 161; 193pp; German

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RESULT 43
ABB77414
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New nucleic acid from Ashbya gossypii, useful, when modulated, for producing fine chemicals, e.g. amino acids, encodes membrane-construction or -transport proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fungus; membrane transport; organic acid; amino acid; fatty acid; purine; pyrimidine; nucleotide; nucleoside; lipid; diol; carbohydrate; aromatic compound; vitamin; riboflavin; fodder; food; cosmetic; pharmaceutical; genome mapping; protein structure.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2003
19-JUL-2002
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                                                                                                                                                          N-PSDB;
                                                                                                                                                                                                                                                                        Althoefer H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eremothecium gossypii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fungal membrane transport protein SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABB77414 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                              15-SEP-2000; 2000DE-01046074.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-SEP-2001; 2001WO-EP010575
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                                                                                                                                                                                                                                                                                                                                                     (BADI ) BASF
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                                                                                                                                                          2002-383130/41.
DB; ABL58819.
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5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 IGDIGD
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(first entry)
                                                                                                                                                                                                                                                                            Revuelta Doval JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 233
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note= "Xaa = unknown,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .302
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
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Pred. No. 8.6e+02;
1; Mismatches 0
                                                                                                                                                                                                                                                                            Santos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               encoded by degenerate codons"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NO 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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ABP66144
ABP66144
ABP66144
AC ABP6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Bifidobacterium longum NCC2705; Bifidobacterium; bacterial; antidiarrheic; antibacterial; inhibitor of Salmonella; detection; identification; lactic acid bacterium; diarrhoea; pathogenic bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an isolated nucleic acid (I) from Ashbya
                                                                                                                                                                                                                                                                                                                                                            Novel polynucleotide comprising Bifidobacterium genome sequence useful as a probe or primer for detecting and/or identifying Bifidobacterium longum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2002-668397/72.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-JAN-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bifidobacterium longum NCC2705 ORF amino acid sequence SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    19-NOV-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (NEST ) SOC
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                                                                                                                                                                                                                                                                                                                          biological sample.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROD NESTLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001EP-00102050
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   composition; pharmaceutical composition
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Pred. No. 9.5e
1; Mismatches
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9.5e+02;
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sequence of a Bifidobacterium genome selected from the nucleotide sequences given in ABQ81842 and ABQ81843, or a sequence exhibiting at least 90% identity or which hybridises with the sequences given in ABQ81842 and ABQ81843. Also described is a polynucleotide (II) encoding the sequence of the sequences of the abgencies of the above
encoding

The invention relates to an isolated polynucleotide (ACF64435-ACF64733) encoding a Propionibacterium acnes protein. The invention also relates polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to

6

New Propionibacterium acnes polypeptides and polynucleotides encoding the polypeptide, useful for diagnosing, preventing or treating acne vulgaris, or for stimulating an immune response specific for a P. acnes protein.

Claim 7;

SEQ

ID NO 30600; 1481pp; English.

invention describes a polynucleotide (I) comprising

Claim 3;

SEQ ID NO 888; 80pp; English.

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RESULT 45
ABM65924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC heterologous polypepide. [7] has antidiarrheic and antibacterial CC activities, and can be used as an inhibitor of Salmonella. [1] (which is C a probe) is useful for the detection and/or identification of Silmonella. [1] (which is C Bifidobacterium longum in a biological sample. A carrier containing the CC lactic acid bacterium Bifidobacterium longum NCC2705 (CNCM I-2618) can be CC used for preventing and/or treating diarrhoea brought about by pathogenic CC bacteria and/or rotavirus. The carrier is a food composition selected CC products, ice-creams, fermented cereal based products, milk based fermented CC products, ice-creams, fermented cereal based products, milk based CC products, infant formula, pet food or a pharmaceutical composition CC supplement, wet oral supplement, dry tube feeding or wet tube feeding. CC [1] is useful in DNA arrays or chips to carry out analysis of the CC expression of the Bifidobacterium gene. AB081844 to AB081850 represent CC Bifidobacterium related nucleotide sequences given in the Sequence CC specification. N.B. The sequence data for this patent is not represented CC in the printed specification but is based on sequence information CC supplied by the European Patent Office
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                                                                                                                                                     Mitcham JL, SAU- Jen S, Zhang Y, Wang S, Jen S, Zhang Y, Wallieve-Douglass J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fusion protein, comprising a sequence selected from 1097 sequences given in ABP65258 to ABP66354 ligated in frame to a polynucleotide encoding a heterologous polypeptide. (I) has antidiarrheic and antibacterial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-OCT-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 308 AA;
                                                                                                                                                                                                                                                                                15-OCT-2001; 2001US-00978825
                                                                                                                                                                                                                                                                                                               11-OCT-2002; 2002WO-US032727.
                                                                                                                                                                                                                                                                                                                                              24-APR-2003
                                                                                                                                                                                                                                                                                                                                                                             WO2003033515-A1
                                                                                                                                                                                                                                                                                                                                                                                                        Propionibacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                          immunostimulant; immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Acne vulgaris; antiseborrhoeic; dermatological; antibacterial;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Propionibacterium acnes immunogenic polypeptide #30600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABM65924;
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                                                                                                                                                                                                                                                  (CORI-)
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171 VGDVGD 176
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                                                                                                                                                                                                                                                  CORIXA CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                          response;
                                                                                                                                                                                    Persing DH,
Lodes MJ,
188 J;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                            vaccine; immunogenic
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9.7e+02;
0;
                                                                                                                                                                                                     Bhatia A,
Benson DR,
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Jones R, Carte
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                                                                                                                                                                                                     Carter D;
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RESULT 46
ABO71148
ID ABO71148
ID ABO71
XX ABO71
AC ABO71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     method for stimulating an immune response specific for a p. acnes composition for stimulating an immune response specific for a p. acnes composition for stimulating an immune response specific for a p. acnes polypeptides, and an isolated T cell population comprising P. acnes polypeptides, composition proteins, T cell specific for detecting or determining the presence or absence of p. acnes in a composition of p. acnes in a composition. The p. acnes in a composition or an immune polypeptides, antibodies, fusion proteins, T cell populations or antigen-presenting cells that express the polypeptides, antibodies, fusion proteins, T cell populations or antigen-presenting or treating acne compositions, or for stimulating an immune response specific for a p. acnes for concleic acid hybridisation. The vaccine composition is useful for the stimulation of an immune response against p. acnes, or for treating acne, and the kit is useful for performing a diagnostic assay. The present control is useful for a specifically claimed p. acnes polypeptide which is contain an immunogenic region. Note: The sequence data for the form part of the present on the vaccine composition but useful to performing a diagnostic assay.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 4
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                                                                                                                                                                                                    Novel isolated nucleic acid encoding Pseudomonas aeruginosa polypeptide, useful as molecular targets for diagnostics, prophylaxis and treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-FEB-1998;
27-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 353
                                                                               Disclosure; SEQ ID NO 19894; 455pp;
                                                                                                                                                          pathological conditions resulting from bacterial
                                                                                                                                                                                                                                                                                                                         N-PSDB; ABD04719.
                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-615309/58.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rubenfield MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-APR-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pseudomonas aeruginosa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacterial infection; Pseudomonas aeruginosa infection; antibacterial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pseudomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABO71148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABO71148 standard; protein; 456 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US6551795-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GENO-) GENOME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          patent did not form part of the printed specification, but was ined in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        117 VGDVGD 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 igpigb 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      aeruginosa polypeptide #3323.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THERAPEUTICS CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0074788P.
98US-0094190P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99US-00252991.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Nolling J, Deloughery C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                93.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                               English
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bush
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ..
                                                                                                                                                                  infection.
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The invention relates to

Pseudomonas aeruginosa polypeptides and the

Sequence 500 AA;

specification

EPO

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RESULT 47
AD036971
ID AD0366
XX AD036
XX AD036
XX Cell
XX Cell
XX Cell
XX Cell
XX WO200
XX WO21
PM 23-DE
XX WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                         encoding a cell proliferation-related polypeptide. The nucleic acid molecule and the encoded polypeptide, and methods are useful for modulating cell proliferation, senescence, differentiation, development, and stress response in plants, and for producing enhanced food crops. The present sequence represents a cell proliferation-related polypeptide. The present sequence is published separately from the main body of the
                                                                                                                                                                                                                                                                                                                                                         New nucleic acid molecule encoding a cell proliferation-related polypeptide, useful for modulating cell proliferation, sensecence, differentiation, development, and stress response in plants, and for producing enhanced food crops.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             differentiation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell proliferation related polypeptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cell proliferation-related polypeptide #63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-OCT-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADQ36971;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADQ36971 standard; protein; 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 456 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotides encoding them. The therapy of pathological conditions,
                                                                                                                                                                                                                                                                                                   Claim 28; SEQ ID NO 130; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-534388/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-DEC-2002; 2002US-0436565P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  prophylaxis and treatment of pathological conditions resulting from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (SYGN ) SYNGENTA PARTICIPATIONS
                                                                                                                                                                                                                                             present invention relates to an isolated nucleic acid molecule
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5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             stress response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1;
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Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The sequences are useful in di
lons, as molecular targets for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         senescence;
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Length 500;

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RESULT 48
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Best Local Similarity
                                                                                                            Matches
                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                             The invention comprises the amino acid and coding sequences of rice stress-related proteins. The DNA and protein sequences of the invention are useful for regulating and controlling plant maturation and development, including proliferation, sensecence, disease-resistance, or stress response. They are also useful for producing transgenic plants having improved properties, e.g. tolerance to pests, herbicides, or biotic or abiotic stresses, improved nutritional value, increased yield or proliferation, or improved structure causing less loss from lodging or shattering. The present amino acid sequence represents a rice stress-related protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rice; stress-related protein; plant maturation; plant development; plant proliferation; plant senescence; plant disease-resistance; plant stress response; transgenic plant; pest tolerance; herbicide tolerance; biotic stress tolerance; abiotic stress tolerance; improved nutritional value; increased yield; increased proliferation.
                                                                                                                                                                                                                              Sequence 500 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New isolated nucleic acids and proteins, useful for producing transgenic plants having improved properties, e.g. tolerance to pests, herbicides, or biotic or abiotic stresses, improved nutritional value, or increased
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-DEC-2003; 2003WO-US041098.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SYGN ) SYNGENTA PARTICIPATIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   115 VGDVGD 120
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)B; ADQ15640.
115
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                                                 1 IGDIGD 6
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                                                                                                            Similarity
4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      proliferation.
VGDVGD 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002US-0436564P.
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                                                                                                                                           93.8%;
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Pred. No. 1.6e+03;
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Pred. No.
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G
                                                                                                                                        1.6e+03;
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RESULT

Query Match Best Local Similarity

93.8%;

Score Pred.

No.

DB 8; 1.6e+03;

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The invention relates to a novel amylo maltase polypeptide comprising the camino acid sequence of a wild-type amylo maltase with a substitution, canddition or deletion at a position, where the amino acid residue conteracts with acarbose of amino acids other than the wild-type amylo conteracts with acarbose of amino acids other than the wild-type amylo containing a nucleic acid sequence encoding the nucleic acid sequence; a foodstuff, a food additive or a modifier of foodstuff containing the nucleic acid sequence; a transgenic organism containing the nucleic acid sequence; a containing the nucleic acid sequence of foodstuff containing the nucleic acid sequence of foodstuff containing the nucleic acid sequence of containing the nucleic acid sequence of acid sequence of containing the nucleic acid sequence of the nucleic acid sequence of condaining the mino acid sequence of the novel amylo maltase polypeptide; and a cyclic glucan obtained by reacting the novel amylo maltase polypeptide; condatuff such as cooked rice, Japanese confectionery, snacks, bakeries, noodles, Chinese dumpling, shao-mai, fishery kneading goods, condates, chinese dumpling, shao-mai, fishery kneading goods, refrigerating foods, baby foods, pet foods, feed for animals, drinks, and food supplements, where the method involves adding the novel amylo maltase polypeptide to the foodstuff before or immediately after neat composition, infusion solution or composition for adhesion, where the composition is useful for adhesion.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADQ15026 standard; protein; 505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New mutated amylo maltase polypeptide having increased enzyme activity and reduced hydrolyzing activity, useful for manufacturing foodstuffs such as Japanese confectionery, noodles, baby foods, and food additives.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         saccharide; (alpha)-1,4-glucan; cooked rice; Japanese confectionery; snack; noodle; Chinese dumpling; shac-mai; fishery kneading; refrigerated; baby food; pet; animal feed; drink; food supplement; cyclic glucan; Synechocystis sp. PCC 6803.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synechocystis sp. PCC 6803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-528719/51
N-PSDB; ADQ15025.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synechocystis sp. PCC 6803.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Amylo maltase; transgenic; foodstuff; food additive; modifier;
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                                                                     method involves reacting the saccharide containing the linear structure of (alpha)-1,4-glycoside linkage or its derivatives with the novel amyle maltase polypeptide. This sequence represents a Synechocystis sp. PCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 9; SEQ ID NO 17; 51pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-SEP-2003;
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(NIDE ) NEC CORP.
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Search completed: July 27, 2005, 01:17:29 Job time: 167 secs
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Matches 4
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                                                                                                                                                                                The invention describes a new isolated nucleic acid encoding a Klebsiella pneumoniae polypeptide. Also described are: a recombinant expression vector comprising the nucleic acid, operably linked to a transcription regulatory element; and a cell comprising the recombinant expression vector. The nucleic acid is useful for preparing a vaccine composition against Klebsiella pneumoniae. This is the amino acid sequence of a Klebsiella pneumoniae polypeptide of the invention
                                                                                                                                                                                                                                                                                                                      New nucleic acid encoding a Klebsiella pneumoniae polypeptide, useful for preparing a vaccine composition against Klebsiella pneumoniae.
                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-895346/82.
N-PSDB; ACH98063.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Klebsiella pneumoniae.
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                                                                                                                                                           Sequence 544 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US6610836-B1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Recombinant expression vector; transcription regulatory element; Klebsiella pneumoniae protein; antibacterial; Vaccine.
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                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 11029; 932pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                (GENO-) GENOME THERAPEUTICS CORP.
                                                                                                    y Match 93.8%;
Local Similarity 66.7%;
hes 4; Conservative
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                                                                                                      Score 30; DB 7; Length 544; Pred. No. 1.7e+03; 2; Mismatches 0; Indels
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ore greater than or equal to the score of the result being printed,
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US-09-925-991A-1989
US-09-925-991A-30097
US-09-252-991A-2675
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	-09-489-039A-7930 Sequence 7931 -09-710-279-2188 Sequence 2181 -09-710-279-1234 Sequence 12309-902-540-10537 Sequence 10509-614-912-62 Sequence 10509-614-912-74 Sequence 74, -09-710-279-148 Sequence 15609-710-279-156 Sequence 15609-710-279-1152 Sequence 11509-710-279-1158 Sequence 11509-710-279-129 Sequence 12209-710-279-1294 Sequence 12309-710-279-2184 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-710-279-2186 Sequence 21309-7198-452A-812 Sequence 81209-614-912-82 Sequence 81209-614-912-82 Sequence 31609-438-185A-764 Sequence 365-	4	4.	w	4	4	4	4	4	4.	4	4	4	4.	4	4.	4.	4	4	4.	4	4	4
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ALIGNMENTS

RESULT 1 US-09-248-796A-20030

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; Sequence 20030, Application US/09248796A
; patent No. 6747137
; GENERAL INFORMATION:
APPLICANT: Keith Weinstock et al
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELITITE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR PILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 20030
; LENCTH: 325
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US-08-470-179-7
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                                                                                                 Sequence 7, Application US/08470179
Patent No. 5645994
GENERAL INFORMATION:
APPLICANT: Huang Ph.D, Wai Mun
TITLE OF INVENTION: Method and Compositions for
TITLE OF INVENTION: Identification of Species in a Sample
                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
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ORGANISM: Candida albicans
                                                             NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
ADDRESSEE: Trask, Britt and STREET: P.O. Box 2550 CITY: Salt Lake City
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; Sequence 5489, Application US/09513999C
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Best Local Similarity
"hehes 5; Conserv?
                RESULT 4
US-09-513-999C-5489
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Best Local Similarity
"hes 5; Conserva
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US-09-513-999C-5488
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                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 36681
SOFTWARE: Patent.pm
SEQ ID NO 5488
                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Duclert, A.
APPLICANT: Giordano, J.Y.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins
Patent No. 6783961
FILE REFERENCE: 59.US2.REG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 5488, Application US/09513999C Patent No. 6783961
                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
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TELEPAX: 801-531-9168
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 59 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Sweigert Ph.D, Susan E.
REGISTRATION UNMER: 36,289
REFERENCE/DOCKET NUMBER: 2601
TELECOMMUNICATION INFORMATION:
TELEPHONE: 801-531-1922
TELEPHAX: 801-531-9168
                                                                                                                                                                                                                                                             TYPE: PRT
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/470,179
FILING DATE:
CLASSIFICATION: 435
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                               ENGTH: 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: protein ORIGINAL SOURCE: ORGANISM: Rickettsiae
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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Pred. No. 22;
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Pred. No. 25;
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US-09-248-796A-21116
; Sequence 21116, Application US/09248796A
; Sequence 21116, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANT;
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Myxococcus xanthus; FEATURE; ; FEATURE; ; NAME/KEY; unsure; LOCATION; (1)..(185); OTHER INFORMATION; unsure at all Xaa locations US-09-902-540-14654
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10(1.5849)B
CURRENT APPLICATION NUMBER: US01-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 14654
LENGTH: 185
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APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
FILE REFERENCE: 59 US2.REG
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT APPLICATION NUMBER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 36681
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Best Local Similarity
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GENERAL INFORMATION:
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Matches 5; Conserv
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SEQ ID NO 5489
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TYPE: PRT
                                                                                                                                                                                                                 62 VGDIGD
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FILE REFERENCE: 107196.132

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RESULT 7
US-08-631-607-4
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RESULT 8
US-09-098-358B-4
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                                                                                                                   Query Match
Best Local Similarity
Thehes 5; Conserv
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CURRENT FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
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                                                                                                                                                                                                                                                                                TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 211 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
NAME: Haile, Liea A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 072
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
                                                                                                                                                                                                                               TYPE: amino acid
STRANDEDNESS: not
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
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Local Similarity 83.3%;
es 5; Conservative
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                                                                                                                                    Conservative
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                                                                                                                                                 96.9%;
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Pred. No.
                                                                                                                                                  DB 1;
85;
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Sequence 1, Application US/10638333
Patent No. 6825020
GENERAL INFORMATION:
APPLICANT: Sakaguchi, No. 6825020uo
APPLICANT: Kuwahara, Kazuhiko
TITLE OF INVENTION: GANP Protein
FILE REFERENCE: 050208-0014
CURRENT APPLICATION NUMBER: US/10/638,333
CURRENT FILING DATE: 2003-08-12
PRIOR APPLICATION NUMBER: PCT/JP99/04634
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APPLICANT: Kuwahara, Kazuhiko
TITLE OF INVENTION: GANP Protein
TILE REFERENCE: 050208-0014
CURRENT APPLICATION NUMBER: US/09/914,272A
CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: PCT/JP99/04634
PRIOR APPLICATION NUMBER: PCT/JP99/04634
PRIOR APPLICATION NUMBER: 47035/1999
PRIOR APPLICATION NUMBER: 47035/1999
PRIOR FILING DATE: 1999-02-24
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; OTHER INFORMATION: RAT CRP
US-09-098-358B-4
                                                                                                                                                                                     RESULT 10
US-10-638-333-1
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LENGTH: 211
TYPE: PRT
ORGANISM: ARTIFICIAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 4, Application US/09098358B Patent No. 6436673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn version 3.1 SEQ ID NO 1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1971
TYPE: PRT
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Local Similarity 83.3%;
nes 5; Conservativo
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Pred. No.
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Pred. No. 9.5e+02;
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US-09-902-540-16239
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; ORGANISM: Mouse
US-10-638-333-1
                                                                                                                                                                                                                                                                                                                                                                            US-09-902-540-10934
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 16239
LENGTH: 365
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Best Local Similarity
                                                     NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 10934
LENGTH: 423
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                                                                                                     APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCE: 38-10 (15849) B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
ORGANISM: Myxococcus xanthus -09-902-540-10934
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PRIOR APPLICATION NUMBER: 47035/1999
PRIOR FILING DATE: 1999-02-24
NUMBER OF SEQ ID NOS: 9
                                       TYPE: PRT
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83.38;
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Pred. No. 2.4e+02;
2; Mismatches 0
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Pred. No. 9.5e+02;
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RESULT 15
US-09-252-991A-30097
; Sequence 30097, Application US/09252991A
; Patent No. 6551795
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US-09-252-991A-19894
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Patent No. 6610836

GENERAL INFORMATION:
APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001

CURRENT ELIZION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR APPLICATION NUMBER: US 60/117,747

PRIOR TILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 11029

LENGTH: 544
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PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 19894
LENGTH: 456
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GENERAL INFORMATION:
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                  TYPE: PRT
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121 VGDVGD 126
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Pred. No. 3.7e+02;
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Pred. No. 3.1e+02;
1; Mismatches 0;
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Pred. No. 2.8e+02;
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; Sequence 20035, Application US/09252991A
; Patent No. 6551795
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Best Local Similarity
Thes 5; Conserv
GENERAL INFORMATION:
APPLICANT: MARC J. RUDENFIeld et al.
APPLICANT: MARC J. RUDENFIeld et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
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TITLE OF INVENTION: NUCLEIC ACID AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEO ID NOS: 33142
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PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
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CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
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Similarity 66.7%;
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Pred. No. 5.9e+02;
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Pred. No.
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US-09-252-991A-30600
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                                                                      US-09-252-991A-30600
                                                                                             PRIOR APPLICATION NUMBER: 1998-02-18
PRIOR PILING DATE: 1998-07-18
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30600
LENGTH: 514
TYPE: PRT
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GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
APPLICANT: MARC J. RUBENFIELD ACID AND AMINO ACID SEQUENCES RELATING TO
TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
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SEQ ID NO 20035
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GENERAL INFORMATION:
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SEQ ID NO 26752
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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: 1998-07-27
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Best Local Similarity
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Best Local Similarity
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 Matches
                                  Query Match
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/252,991A CURRENT FILING DATE: 1999-02-18 PRIOR APPLICATION NUMBER: US 60/074,788 PRIOR FILING DATE: 1998-02-18
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90.6%; Score 29; DB 4; Louis 66.7%; Pred. No. 5.5e+02; Sive 2; Mismatches 0;
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Pred. No.
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Pred. No. 4.7e+02;
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RESULT 22
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; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-15691
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GENERAL INFORMATION:
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SEQ ID NO 15691
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof FILE REFERENCS: 38-10 (15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
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OTHER INFORMATION: Identity of amino acid at the above locations are unknown.
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216 LGDVGD
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Pred. No. 7.4e
2; Mismatches
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Pred. No. 7.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Klebsiella pneumoniae US-09-489-039A-7652
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APPLICANT: GATY Breton et. al
APPLICANT: GATY Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709-2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
                                                                                                  Sequence 41400, Application US/09270767 Patent No. 6703491 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 7652
LENGTH: 72
TYPE: PRT
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LENGTH: 739
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APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
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TITLE OF INVENTION: NUCLEIC ACID AMINO ACID SEQUENCES RELATING TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS FILE REFERENCE: 107196.136
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Pred. No.
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Pred. No.
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NUMBER OF

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FILLE OF ANTHOU-OTA
FILE REFERENCE: PATH00-07A
CURRENT APPLICATION NUMBER: US/09/583,110
CURRENT FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/107,433
PRIOR FILING DATE: 1998-06-30
PRIOR APPLICATION NUMBER: US 60/085,131
PRIOR FILING DATE: 1998-05-12
PRIOR PRILING DATE: 1998-05-12
PRIOR PILING DATE: 1997-07-02
NUMBER: US 60/051,553
PRIOR FILING DATE: 1997-07-02
SEQ ID NO 4901
LENGTH: 137
TWYDE DET
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US-09-583-110-4901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: Xaa means any amino acid US-09-270-767-56616
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: Homburger et al.
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT FILING NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 56616
LENGTH: 96
TYPE: PRT
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SEQ ID NO 41400
LENGTH: 96
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
Query Match
Best Local Similarity
                                                        ORGANISM: Streptococcus pneumoniae -09-583-110-4901
                                                                                                                                                                                                                                                                                                                                APPLICANT: Lynn Doucette-Stamm et al.
TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 96
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
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33 LGDLGD 38
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66.7%;
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 87.5%;
83.3%;
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Pred. No. 1.4e+02;
2; Mismatches 0
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Pred. No. 1.4e+02;
 Score 28;
Pred. No.
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                   Length 137;
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RESULT 28
US-09-328-352-7997
; Sequence 7997, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
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Patent No. 6800744

Patent INFORMATION:
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
APPLICANT: Lynn A Doucette ACID AND AMINO ACID
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local Similarity
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INFORMATION FOR SEQ ID NO: 5189:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/107,433
PILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/ 085131
PILING DATE: May 12, 1998
APPLICATION NUMBER: 60/55153
APPLICATION NUMBER: 60/55153
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEDONOW: (781)803-5007
                                                                                                                                                                                                                                                                                                                NAME/KEY: misc_feature
LOCATION: (B) LOCATION 1...142
SEQUENCE DESCRIPTION: SEQ ID NO: 5189:
                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: protein HYPOTHETICAL: YES ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
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MEDIUM TYPE: CD/ROM ISO9660
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                                                                                                                                         57 IGDIGE
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OPERATING SYSTEM: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (781)893-5007
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Pred. No. 2.2e+02;
1; Mismatches 0
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; OTHER INFORMATION: Description of Artificial Sequence: synthetic; OTHER INFORMATION: amino acid sequence US-09-710-279-2188
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US-09-489-039A-7930
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SEQ ID NO 7930
LENGTH: 151
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PATENT NO. 6610836

GENERAL INFORMATION:
APPLICANT: Gary Breton et. al
APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
TITLE OF INVENTION: PREUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 2709.2004001
                                                                                                                                                                                                                                                                                                                                     Sequence 2188, Application US/09710279
Patent No. 6703492
GENERAL INFORMATION:
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Best Local Similarity
Matches 5; Conserv
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SEQ ID NO 7997
LENGTH: 146
TYPE: PRT
                                                                                                                   SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2188
LENGTH: 198
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                                                                                                                                                                                                                                    APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: 60/164,258 PRIOR FILING DATE: 1999-11-09
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CURRENT FILING DATE: 1999-06-04
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC99-03PA
                                                                                                                                                                              NUMBER OF SEQ ID NOS: 4472
                                                         ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Klebsiella pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Acinetobacter baumannii
                                                                                                  TYPE: PRT
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100.0%; Pr
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s; Pred. No. 2.3e+02;
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Pred. No.
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Query Match
Best Local Similarity
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                                                                                                                 ; ORGANISM: Myxococcus xanthus US-09-902-540-10537
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                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 32
                                                                                                                                           APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849) B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 10537
LENGTH: 226
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1234
LENGTH: 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No. 6703492
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS
FILB REFERENCE: PU3480US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1234,
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Best Local
                                                        Matches
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                                                                                  Query Match
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ORGANISM: Artificial Sequence
FEATURE:
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                                                       Local Similarity
ses 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                             108 IGEIGD
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nilarity 66.7%;
Conservative
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83.3%;
                                                       Score 28; DB
Pred. No. 3.6e
2; Mismatches
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Pred. No.
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0;
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US-09-614-912-62

Application US/09614912

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APPLICANT: Lee, Jame
APPLICANT: Sakai, Hajime
APPLICANT: Sakai, Perry
APPLICANT: Weng, Zude
APPLICANT: Caimi, Perry G
APPLICANT: Anderson, Shawn
TITLE OF INVENTION: Plant Metabolism Genes
FILE REFERENCE: BB1378 US NA
CURRENT APPLICATION NUMBER: US/09/614,912
CURRENT FILING DATE: 2000-07-12
CURRENT APPLICATION NUMBER: 60/143,401
PRIOR APPLICATION NUMBER: 60/143,401
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Sequence 62, Appra-
No. 6677502
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TYPE: PRT
ORGANISM: Zea mays
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NAME/KEY: UNSURE
LOCATION: (123)
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INVENTION: Plant Metabolism Genes
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6677502
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                                                                                                                                                                                 Rafalski, Anto:
Orozco, Buddy
Miao, Gou-Hau
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Weng, Zude
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Rafalski, Antoni
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Anderson, Shawn
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                                                                                                                                                                                                               Antoni
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. 4e+02;
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TYPE: PRT
; ORGANISM: Triticum aestivum
US-09-614-912-74
                                                                                                                                                                                                                           RESULT 36
US-09-710-279-156
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OTHER INFORMATION:
US-09-710-279-148
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Matches
                                                                 Sequence 156, Application US/09710279

Bequence 156, Application US/09710279

Patent No. 6703492

GENERAL INFORMATION:

APPLICANT: KIMMERLY, WILLIAM JOHN

TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS.

FILE REFERENCE: PUJ480US

CURRENT APPLICATION NUMBER: US/09/710,279

CURRENT FILING DATE: 2000-11-09

PRIOR APPLICATION NUMBER: 60/164,258
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SEQ ID NO 148
LENGTH: 337
TYPE: PRT
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Best Local (
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PRIOR FILING DATE: 1999-12-21
NUMBER OF SEQ ID NOS: 204
SOFTWARE: Microsoft Office or
                                                                                                                                                                                                                                                                                                                                                                  Matches
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CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
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PRIOR APPLICATION NUMBER: 60/
                                  PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
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PRIOR APPLICATION NUMBER:
SOFTWARE: Pa
BQ ID NO 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence FEATURE:
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nes 5; Conserv
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nes 5; Conserv
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                  PatentIn Ver.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description of Artificial Sequence: synthetic amino acid sequence
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100.0%;
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Pred. No. 5.
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5.5e+02;
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                                                                                                                                           AND PROTEINS
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CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 458
LENGTH: 337
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence; FEATURE:
TOTHER INFORMATION: Description of Artificial Sequence: synthetic; OTHER INFORMATION: amino acid sequence
US-09-710-279-458
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US-09-710-279-1152
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                                                                                                                                                       FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 1152
                                                                                                                                                                                                                                                                                                     Sequence 1152, Application US/09710279
PATENT NO. 6703492
GENERAL INFORMATION:
APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
 Query Match
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Best Local Similarity
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Patent No. 67034
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TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS
                                            ORGANISM: Artificial Sequence FEATURE: FOTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: amino acid sequence
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                                                                                                                              TYPE: PRT
                                                                                                                                             ENGTH: 337
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les 5; Conserv
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 87.5%;

    Mismatches

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Pred. No. 5.5e+02;
1; Mismatches 0; Indels
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Pred. No. 5.5e+02;
 Score 28;
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RESULT 40
US-09-710-279-1220
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                                                             Best Loc
Matches
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1220
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SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1198
LENGTH: 337
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GENERAL INFORMATION:
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Matches 5; Conserv
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TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PUJ480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
CURRENT FILING DATE: 2000-11-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS BPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/164,258 PRIOR FILING DATE: 1999-11-09
                                                                                                                                          OTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: amino acid sequence
                                                                                                                                                                          ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                          TYPE: PRT
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                                                                                                                                                                                                                         ENGTH: 337
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                                                            Similarity 5; Conser
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IGEIGD
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                                                            Score 28; DB
Pred. No. 5.5e
1; Mismatches
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1; Mismatches
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5.5e+02
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RESULT

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RESULT 43
US-09-710-279-2196
; Sequence 2196, Application US/09710279
; Patent No. 6703492
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/09/710,279
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Best Local S
Matches 5
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TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: P03480US
CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: PATENTIN Ver. 2.1
SEQ ID NO 2044
LENGTH: 337
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: KIMMERLY, WILLIAM JOHN
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: amino acid sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: PRT ORGANISM: Artificial Sequence
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nes 5; Conserv
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Pred. No. 5.5e+02
1; Mismatches
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Pred. No.
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                                            NUCLEIC ACIDS AND PROTEINS
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US-09-710-279-2786
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SEQ ID NO 23322
LENGTH: 353
TYPE: PRT
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LENGTH: 337
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/710,279
CURRENT FILING DATE: 2000-11-09
PRIOR APPLICATION NUMBER: 60/164,258
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 2786
                                                                                                                                                                                                                                                                         Sequence 23322, Appl Patent No. 6551795 GENERAL INFORMATION:
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Best Local Similarity
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PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 4472
SOFTWARE: Patentin Ver. 2.1
                                                                                                               APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
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TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
FILE REFERENCE: PU3480US
                                                                         CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
PRIOR FILING DATE: 1998-07-27
                                                              NUMBER OF SEQ ID NOS:
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                                                                                                                                                                                                                                                                                                                  Application US/09252991A
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    Mismatches

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Pred. No. 5.5e+02;
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Pred. No. 5
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5.5e+02;
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APPLICANT: Canal, APPLICANT: APPLICANT: Anderson, Shawn
TITLE OF INVENTION: Plant Metabolism Genes
FILE REFERENCE: BB1378 US NA
CURRENT APPLICATION NUMBER: US/09/614,912
CURRENT FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: 60/143,401
PRIOR FILING DATE: 1999-07-12
PRIOR FILING DATE: 1999-07-12
PRIOR APPLICATION NUMBER: 60/143,412
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: 60/170,906
PRIOR APPLICATION NUMBER: 60/170,906
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR APPLICATION NUMBER: 60/172,959
PRIOR APPLICATION NUMBER: 60/172,956
PRIOR APPLICATION NUMBER: 60/172,946
PRIOR APPLICATION DATE: 1999-12-21
PRIOR APPLICATION DATE: 1999-12-21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 47
US-09-614-912-82
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LENGTH: 361
TYPE: PRT
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GENERAL INFORMATION:
APPLICANT: Griffals, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragment:
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prev
TITLE OF INVENTION: and treatment of infection
FILE REFERENCE: 9710-003-999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local :
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Sequence 82, Appr.
No. 6677502
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
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Microsoft Office 97
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Rafalski,
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Lee, Jian Ming
Sakai, Hajime
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Weng, Zude
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Miao, Gou-Hau
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; Pred. No.
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CURRENT APPLICATION NUMBER: US/09/438,185A
CURRENT FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: US 60/108,279
PRIOR FILING DATE: 1998-11-12
PRIOR APPLICATION NUMBER: US 60/128,606
PRIOR FILING DATE: 1999-04-08
NUMBER OF SEQ ID NOS: 1074
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 764
LENGTH: 380
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US-09-134-001C-3918
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; OTHER INFORMATION: CPn0762
US-09-438-185A-764
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APPLICANT: Lynn DOUGETC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS

TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

FILS REFERENCE: GTC-007

CURRENT APPLICATION NUMBER: US/09/134,001C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/064,964

PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055,779

PRIOR FILING DATE: 1997-08-14

NUMBER OF SEQ ID NOS: 5674

SEQ ID NO 3918

LENGTH: 375
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LENGTH: 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No. 68220
                                                                                                                                                                                                                                                                                                   APPLICANT: Stephens, Richard
APPLICANT: Mitchell, Wayne
APPLICANT: Kalman, Sue
APPLICANT: Kalman, Sue
APPLICANT: Davis, Ronald
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Chlamydia Pneumoniae Genome Sequence
FILE REFERENCE: 018941-000411US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 372
TYPE: PRT
ORGANISM: Oryza sativa
                                                                           TYPE: PRT
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                                   ORGANISM: Chlamydia pneumoniae FEATURE:
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les 5; Conserv
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    Mismatches

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Pred. No.
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Sequence 3650, Application US/09583110
; Sequence 3650, Application US/09583110
; Ratent No. 6699703
; Patent No. 1000 Nucleic Acid and Amino Acid Sequences Relating to Streptococcus TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus TITLE OF INVENTION: Nucleic Acid and Therapeutics
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: NUMBER: US/09/583,110
; CURRENT FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3650
; SEQ ID NO 3650
; US CRANISM: Streptococcus pneumoniae
US-09-583-110-3650
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Search completed: July 27, 2005, 01:21:40 Job time : 24 secs
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US-09-583-110-3650
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                                                                                                                                                                                                                                                Query Match 87.5%; Score 28; DB 4; Length 388; Best Local Similarity 100.0%; Pred. No. 6.4e+02; Matches 5; Conservative 0; Mismatches 0; Indels
                                                                                                                              2 GDIGD 6
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170 GDIGD 174
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 50 summaries
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Maximum DB seq length: 200000000
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Perfect score:
        Published Applications AA:*

1: /cgn2=6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

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10: /cgn2=6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

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20: /cgn2=6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

21: /cgn2=6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
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15.255 Million cell updates/sec
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32
1741741 seqs, 388992284 residues
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Copyright (c) 1993 - 2005 Compugen Ltd.
_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

No. Score Match Length DB ID 1	Result Query
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-10-425-114-4551	-10-156-761-1466	-10-437-963-10252	-10-437-963-15602	US-10-425-115-201329	-10-437-963-14665	-10-767-701-6022	-10-425-115-35521	-10-424-599-2639	-10-425-115-25357	-10-424-599-22790	-10-937-730A-6	-10-437-963-18157	-10-437-963-1398	-10-437-963-18441	-10-424-599-17097	-10-425-115-23989	-10-425-115-32532	-10-425-114-5720	-10-425-114-6	-10-425-114-5203	-10-425-115-33568	-10-425-115-1858	-10-732-923-4243	-10-424-599-235	-10-747-133-1	-10-369-493-1187	-10-425-11	-10-424-599-21835	-10-369-493-2344	-10-389-566-36	-10-156-761-11	-10-739-930-74	-10-739-930-75	-10-224-951-4	-10-158-03	-10-425-115-2562	-10-408-765A-1	0-205-823-7
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ALIGNMENTS

RESULT 1 US-10-027-015A-3

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                                                                                                                                        OTHER INFORMATION: SYNTHETIC PEPTIDE US-10-027-015A-3
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APPLICANT: RANIERI, JOHN P.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PROMOTING MYOCARDIAL AND PERIPHERAL
TITLE OF INVENTION: ANGIOGENESIS
FILE REFERENCE: 2103.000500
CURRENT APPLICATION NUMBER: US/10/027,015A
CURRENT FILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
                                                                   Query Match
Best Local S
Matches 6
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                                                                                                                                                                                                             LENGTH: 6
TYPE: PRT
                                                                                                                                                                         ORGANISM: Artificial FEATURE:
                                                                     Local Similarity
                                 ignign 6
                                                                   100.0%; Score 32; DB 18; ilarity 100.0%; Pred. No. 1.6e+06; Conservative 0; Mismatches 0;
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Publication No. US20050143312A1

GENERAL INFORMATION:
APPLICANT: ARELLA, RAMA
APPLICANT: RANIERI, JOHN P.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR PROMOTING MYOCARDIAL AND PERIPHERAL
TITLE OF INVENTION: ANGIOGENESIS
FILE REFERENCE: 2103.000500
CURRENT APPLICATION NUMBER: US/10/027,015A
CURRENT PILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 6
SOPTWARE: Patentin version 3.2
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 53899, Application US/10767701

Publication No. US20040172684A1

GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
CURRENT FILING DATE: 2004-01-29
NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 53899
LENGTH: 153
                                                                   Sequence 18184, Application US/10369493 Publication No. US20030233675A1 GENERAL INFORMATION:
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APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Sorghum bicolor
FEATURE:
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TYPE: PRT
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Pred. No. 1.3e+02;
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US-10-425-115-192813; Sequence 192813, Application US/10425115; Publication No. US20040214272A1
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CURRENT APPLICATION NUMBER: US/10/369,493

CURRENT FILING DATE: 2003-02-28

PRIOR APPLICATION NUMBER: US 60/360,039

PRIOR APPLICATION NUMBER: US 60/360,039

PRIOR FILING DATE: 2002-02-21

NUMBER OF SEQ ID NOS: 47374

SEQ ID NO 18184

LENGTH: 515
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SEQ ID NO 192813
LENGTH: 689
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Best Local
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
                APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(5355)B
FILE REFERENCE: 38-21(5355)B
CURRENT APPLICATION NUMBER: US/10/767,701
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CURRENT FILING DATE: 2003-04-28
CURRENT FILING DATE:
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LOCATION: (1)..(689)
OTHER INFORMATION: unsure at all Xaa locations
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Pred. No.
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Pred. No. 6.3e+02;
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APPLICANT: La ROSA, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules an
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21 (53222) B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
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SEQ ID NO 36746
LENGTH: 80
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Best Local :
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APPLICANT: Rank, David R.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
FILE REFERENCE: ABOMICA-X-2
CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
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N: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2

N: EXPRESSED IN LUNG, SIGNAL = 1.4

N: EXPRESSED IN HELA, SIGNAL = 1.4

N: EXPRESSED IN BAAIN, SIGNAL = 2.1

N: EXPRESSED IN HEART, SIGNAL = 2.1

N: EXPRESSED IN ADDIT LIVER, SIGNAL = 3.1

N: EXPRESSED IN BONE MARROW, SIGNAL = 3.1
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Pred. No. 1e+C
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                        Score 31; DB 14
Pred. No. 1e+02;
1; Mismatches
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                                                                                                                 and
                                                                                                                 Other Molecules
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= 1.2
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RESULT 10
US-10-158-034-68
US-10-158-034-68
; Sequence 68, Application US/10158034
; Publication No. US20030219758A1
; GENERAL INFORMATION:
; APPLICANT: ROSen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins,
; FILE REFERENCE: PTZ10C1
; FILE REFERENCE: TTZ-000. 110/158.014
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Publication No. US20030219758A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Ver. SEQ ID NO 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                          Query Match
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OTHER INFORMATION: Xaa 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Prior Application removed - See File Wrapper NUMBER OF SEQ ID NOS: 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/158,034
CURRENT FILING DATE: 2002-05-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Nucleic Acids, Proteins, FILE REFERENCE: PTZ10C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Clone ID: MRT4577_149069C.1.peg
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TYPE: PRT
                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Xaa equals any
                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc feature LOCATION: (128)
                                                                                                                                                                                                                                                                                                                                                                    LOCATION: (127)
OTHER INFORMATION: Xaa equals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
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OTHER INFORMATION: Xaa
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OTHER INFORMATION: Xaa
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LOCATION: (123)
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Pred. No. 1.7e+02;
1; Mismatches 0;
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CURRENT APPLICATION NUMBER: US/10/158,034

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NUMBER OF SEQ ID NOS: 123
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 68
LENGTH: 156
TYPE: PRT
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US-10-205-823-72
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; FEATURE:
; OTHER INFORMATION: Protein: Cofilin
US-10-205-342-21
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US-10-158-034-68
                                                                                                                                       APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John E.
APPLICANT: Endege, Wilson O.
APPLICANT: Gannavarapu, Manju.
APPLICANT: Gorbatcheva, Bella
APPLICANT: Hoersch, Sebastian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 34
SOPTWARE: PATENTIN VERSION 3.0
SEQ ID NO 21
LENGTH: 166
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21, Application No. US200 GENERAL INFORMATION:
                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                  Sequence 72, Application US/10205823 Publication No. US20030108963A1
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Best Local :
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APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
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APPLICANT: Lee, Kevin
APPLICANT: Lee, Kevin
APPLICANT: Dixon, Alistair
APPLICANT: Dixon, Alistair
APPLICANT: Brooksbank, Robert
TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
FILE REFERENCE: WL-A-018198
FILE REFERENCE: WL-A-018198
CURRENT FILING DATE: 2002-07-24
PRIOR APPLICATION NUMBER: US/10/205,342
CURRENT FILING DATE: 2001-07-27
PRIOR FILING DATE: 2001-07-27
NUMBER: GB 0118354.0
   TITLE
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                                      TITLE OF
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les 5; Conserv
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T: Anderson, Dustin
INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
INVENTION: THERAPY OF PROSTATE CANCER
                                                                                                                                                                                                                                                                                                                                                                                                           1 IGDIGD 6
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                                                                                                      Hoersch, Sebastian
Kamatkar, Shubhangi
Wonsey, Angela M.
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                                                                     Zhao, Xumei
                                                                                    Wonsey, Angel
Glatt, Karen
                                                                                                                                                         Gannavarapu, Manjula
Gorbatcheva, Bella
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nilarity 83.3%;
Conservative
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Pred. No. 2.1e+02;
1; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
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APPLICANT: Gibson, Bradford W.
APPLICANT: Taylor, Steven W.
APPLICANT: Taylor, Steven W.
APPLICANT: Warnock, Dale E.
APPLICANT: Warnock, Dale E.
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
FILE REFERENCE: 660088.465
CURRENT APPLICATION NUMBER: US/10/408,765A
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEQ ID NOS: 3077
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 1910
LENGTH: 166
                                                                                                               Query Match
Best Local Similarity
Tatches 5; Conserve
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; ORGANISM: Homo sapiens
US-10-205-823-72
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US-10-408-765A-1910
RESULT 14
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CURRENT FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR PILING DATE: 2001-07-25
PRIOR PPLICATION NUMBER: 60/314,356
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR PILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
PRIOR FILING DATE: 2002-03-05
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 72
LENGTH: 166
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APPLICANT: Fahy, Eoin D.
APPLICANT: Zhang, Bing
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83.3%;
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Pred. No.
                                                                                                                                                    Score 31; DB 16;
Pred. No. 2.2e+02
                                                                                                                                   Mismatches
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US-10-425-115-256293; Sequence 256293; Application US/10425115; Publication No. US20040214272A1; GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei

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Best Local Similarity
""Thes 5; Conserve
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US-10-224-951-4
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                                                                                                           APPLICANT: THE JOHN HOPKINS SCHOOL OF MEDICINE
APPLICANT: WORLEY, PAUL
APPLICANT: TSUI, CYNTHIA
TITLE OF INVENTION: NOVEL NEURONAL CELL GROWTH FAC
FILE REFERENCE: JHU 1340-1 (07265/086002)
CURRENT APPLICATION UNMBER: US/10/224,951
CURRENT FILING DATE: 2002-08-20
PRIOR FILING DATE: 2002-08-20
PRIOR FILING DATE: 1998-06-16
PRIOR FILING DATE: 1998-06-16
PRIOR FILING DATE: 1998-06-16
PRIOR FILING DATE: 1998-06-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: Homo sapiens
US-10-158-034-93
                                                                                                                                                                                                                                                                      Sequence 4, Application US/10224951
Publication No. US20030022313A1
GENERAL INFORMATION:
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SEQ ID NO 93
LENGTH: 205
TYPE: PRT
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CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 256293
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Best Local (
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Publication No. US20030219758A1
                                                  SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 211
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 38-21(53222)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/158,034
CURRENT FILING DATE: 2002-05-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Rosen et al. TITLE OF INVENTION: Nucleic Acids, Proteins, FILE REFERENCE: PTZ10C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Prior Application removed - See File Wrapper or Palm
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TYPE: PRT
ORGANISM: Zea mays
               ORGANISM: Artificial Sequence FEATURE:
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OTHER INFORMATION: RAT CRP
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nes 5; Conserv
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Pred. No. 2.4e-
1; Mismatches
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2.4e+02;
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US-10-739-930-7499
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US-10-739-930-7500
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                                                                                                    US-10-739-930-7499
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                                   Matches
                                                               Query Match
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ORGANISM: Zea mays
FEATURE:
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                                 Local Similarity
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5; Conserv
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     1 IGDIGD 6
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CURRENT APPLICATION NUMBER: US/10/739,930
CURRENT FILING DATE: 2003-12-18
NUMBER OF SEQ ID NOS: 11088
SEQ ID NO 7499
LENGTH: 299
TYPE: PRT
ORGANISM: Zea mays
FEATURE: (1)..(299)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; OTHER INFORMATION: Clone ID: US-10-739-930-7500
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Publication No. US20040216190A1
GENERAL INFORMATION:
APPLICANT: Kovalic, David K.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21(53377)B
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SEQ ID NO 7500
LENGTH: 276
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                                                                                                                                                                                                                                                                                                                                           APPLICANT: Kovalic, David K.
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
FILE REFERENCE: 38-21 (53377) B
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                                                                               FEATURE:
OTHER INFORMATION: Clone ID: ZEAMA-23APR03-C168951_1.p
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Conservative
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83.3%;
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                 Score 31; DB 16;
Pred. No. 4.1e+02
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Pred: No. 2.9e+02;
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                 4.1e+02;
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3.8e+02;
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                                   Length 299;
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RESULT 19 US-10-156-761-11418

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APPLICANT: HATTORI, MASAHIKA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
FILE REFERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: JP 2001-204089
PRIOR FILING DATE: 2001-05-30
PRIOR FILING DATE: 2001-05-30
                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/389,566
CURRENT FILING DATE: 2003-03-31
PRIOR APPLICATION NUMBER: US 60/365,301
PRIOR FILING DATE: 2002-03-15
PRIOR APPLICATION NUMBER: US 60/391,786
PRIOR FILING DATE: 2002-06-25
PRIOR APPLICATION NUMBER: US 60/392,018
PRIOR APPLICATION NUMBER: US 60/392,018
PRIOR APPLICATION NUMBER: US 60/392,018
PRIOR APPLICATION NUMBER: US 60/392,018
PRIOR FILING DATE: 2002-06-26
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SEQ ID NO 11418
LENGTH: 328
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SOFTWARE: PatentIn version
SEQ ID NO 367
LENGTH: 342
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Best Local
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TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
FILE REFERENCE: 38-77(52900)D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR FILING DATE: 2001-08-02
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APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, HIRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Monsanto Technology, LLC APPLICANT: Laurie, Cathy C
                                                                                                                  NAME/KEY: misc_feature
LOCATION: (1)..(1)
OTHER INFORMATION: Xaa can be any naturally occurring amino acid
                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Zea mays
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                                              OTHER INFORMATION: Xaa
                                                                 NAME/KEY: misc_feature
LOCATION: (10)..(10)
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NAME/KEY: misc_feature
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HORIKAWA, HIROSHI
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                                            can be any naturally occurring amino acid
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Pred. No. 4.5e
1; Mismatches
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4.5e+02;
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APPLICANT: Can Yihua

APPLICANT: Can Yihua

APPLICANT: Can Yongwei

ITITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

ITITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

ITITLE REPRINCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 218355

LENGTH: 464

TYPE: Par
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Watches 5; Conserve
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SEQ ID NO 23444
LENGTH: 364
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROPERTIES
FILE REFERENCE: 38-10(52052)B
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CURRENT FILING DATE: 2003-02-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Deinococcus radiodurans
NAME/KEY: unsure
LOCATION: (1)..(464)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
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OTHER INFORMATION: Xaa can be any naturally occurring amino acid
                                                           ORGANISM: Glycine max FEATURE:
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    Mismatches

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Pred. No.
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Pred. No.
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5.1e+02;
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; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_39201C.1.pep
US-10-424-599-218355
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Best Local Similarity
"hes 5; Conserva
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Sequence 254563, Application US/10425115

Publication No. US20040214272A1

GENERAL INFORMATION:
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US-10-425-115-254563
                                                                                ; ORGANISM: Mesorhizobium loti
US-10-369-493-11876
                                                                                                                                        TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION (
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 11876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 254563
LENGTH: 537
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              Query Match
Best Local Similarity
Matches 5; Conserv
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CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 38-21(53222)B
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APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                               APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
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APPLICANT: Kovalic, David K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Zea mays
FEATURE:
                                                                                                                LENGTH: 693
TYPE: PRT
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les 5; Conserva
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               Conservative
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            Score 31; DB 15
Pred. No. 1e+03;
1; Mismatches
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Pred. No. 6.5e+02;
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                                                 DB 15; Length 693;
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               Indels
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RESULT 27
US-10-732-923-4243
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US-10-747-133-1
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ARPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT PILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 235305
LENGTH: 115
TYPE: PRT
OPCANTAR
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Best Local Similarity
"---hes 5; Conserv
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APPLICANT: Kuwahara, Kazuhiko
TITLE OF INVENTION: GANP Protein
TITLE OF INVENTION: GANP Protein
TILE REFERENCE: 050208-0014
CURRENT APPLICATION NUMBER: US/10/747,133
CURRENT FILING DATE: 2001-12-05
PRIOR APPLICATION NUMBER: US/09/914,272
PRIOR FILING DATE: 2001-12-05
PRIOR APPLICATION NUMBER: PCT/JP99/04634
PRIOR FILING DATE: 1999-08-27
PRIOR APPLICATION NUMBER: 47035/1999
PRIOR FILING DATE: 1999-02-24
NUMBER OF SEQ ID NOS: 9
                                                                                                                                         US-10-424-599-235305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.1 SEQ ID NO 1
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                                                                                      Query Match
Best Local Similarity
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TYPE: PRT
ORGANISM: Mouse
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FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_54508C.1.pep
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                                   1 IGDIGD 6
LGDIGD 43
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                                                                                      93.8%;
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Pred. No. 3e+03;
1; Mismatches 0; Indels
                                                                                      Score 30; DB 15; Length 115; Pred. No. 2.4e+02;
                                                                         Indels
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US-10-425-115-335683, Application US/10425115; Sequence 335683, Application US/10425115; Publication No. US20040214272A1; GENERAL INFORMATION:
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Best Local Similarity
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US-10-425-115-185817
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US-10-732-923-4243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Kovalic, David K.
APPLICANT: Cao, Yongwei
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(52322)B
FILE REFERENCE: 38-21(52322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 185817
LENGTH: 204
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TITLE OF INVENTION: TRANSGENIC PLANTS WITH IMPROVED PHENOTYPES
FILE REFERENCE: 38-15 (52796) C
CURRENT APPLICATION NUMBER: US/10/732,923
CURRENT FILING DATE: 2003-12-10
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR APPLICATION NUMBER: 10/310,154
PRIOR FILING DATE: 2002-12-04
NUMBER OF SEQ ID NOS: 24149
SEQ ID NO 4243
LENGTH: 115
TYPE: PRT
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TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 38-21 (53222) B CURRENT APPLICATION NUMBER: US/10/425,115 CURRENT FILLING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326
                                                                                                                              APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT
ORGANISM: Zea mays
FEATURE:
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5; Conserv
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Pred. No. 4.3e+02;
1; Mismatches 0
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Pred. No.
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US-10-425-114-52030
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NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 68337
LENGTH: 477
                                                                                                                                                                                                                                                       Sequence 68337, Application US/10425114 Publication No. US20040034888A1 GENERAL INFORMATION:
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Best Local :
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LENGTH: 328
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Publication No. US20040034888A1
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LENGTH: 247
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APPLICANT: Screen, Steven E
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5331)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
                                          APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
                                                                                                                                                                                                 APPLICANT: Liu, Jingdong APPLICANT: Zhou, Yihua APPLICANT: Kovalic, Dav
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Liu, Jingdong APPLICANT: Zhou, Yihua APPLICANT: Kovalic, Dav
                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Zea mays
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4; Conserv
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Kovalic, David K.
Screen, Steven E
Tabaska, Jack E
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    Mismatches

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Pred. No. 7.2e+02;
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Pred. No.
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ORGANISM: Zea mays

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APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Kovalic, David K.
APPLICANT: Chou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 325328
LENGTH: 486
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: Clone ID: UC-ZMROB73052A10_FLI.pep US-10-425-114-68337
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US-10-425-114-57203
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LENGTH: 486
TYPE: PRT
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Best Local Similarity
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Best Local (
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APPLICANT: Cao, Yongwei
TITLE OP INVENTION: Nuclecic Acid Molecules and Other Molecules Associated With
TITLE OP INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5331))B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Zea mays FEATURE:
                                   NAME/KEY: unsure
LOCATION: (1)..(486)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: Clone ID: UC-ZMFLB73152G04_FLI.pep
                                                                                                                 ORGANISM: Zea mays
OTHER INFORMATION: Clone ID: MRT4577_59770C.1.pep
                       FEATURE:
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Pred. No. 1.1e
1; Mismatches
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Pred. No. 1.1e+03;
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APPLICANT: Kovalic, David K.

APPLICANT: Zhou, Yihua

APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(5322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 239997
LENGTH: 540
TYPE: pro
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                                                             ; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_125408C.1.pep
US-10-424-599-170978
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; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_150370C.1.pep
US-10-425-115-239897
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-424-599-170978
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Best Local S
Matches 5
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CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 170978
LENGTH: 567
Matches
                             Query Match
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TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                           APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
                                                                                                    NAME/KEY: unsure
LOCATION: (1)..(567)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                               FEATURE:
                                                                                                                                                                           TYPE: PRT
ORGANISM: Glycine max
             Local Similarity
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tes 4; Conserv
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               93.8%;
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             Score 30; DB 15;
Pred. No. 1.3e+03;
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                              DB 15; Length 567;
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1 IGDIGD 6

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; Sequence 139894, Application US/10437963; Publication No. US20040123343A1; GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
                                                          ; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_41143C.1.pep
US-10-437-963-139894
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US-10-437-963-184415
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
                                                                                                                                                                                  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B CURRENT APPLICATION NUMBER: US/10/437,963 CURRENT FILING DATE: 2003-05-14 NUMBER OF SEQ ID NOS: 204966 SEQ ID NO 139894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 184415
LENGTH: 568
Query Match
Best Local Similarity
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CURRENT FILING DATE: 2003-05-14
                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                     TYPE: PRT
ORGANISM: Oryza sativa
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LOCATION: (1)..(568)
OTHER INFORMATION: u
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ORGANISM: Oryza sativa
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                                                                                                                                                              ENGTH: 598
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Barbazuk, Brad
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93.8%;
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Score
Pred.
No.;
DB 16;
1.3e+03;
                   Length 598;
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APPLICANT: Li, Ping

TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILS REFERENCE: 38-21(53221)B

CURRENT APPLICATION NUMBER: US/10/437,963

CURRENT FILING DATE: 2003-05-14

NUMBER OF SEQ ID NOS: 204966

SEQ ID NO 181573
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                                                                                                                                                                                                                                                                                                                                                                                     Sequence 6, Application US/10937730A
Publication No. US20050112726A1
GENERAL INFORMATION:
APPLICANT: HU, Znihao
APPLICANT: REID, Ralph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PUDILICALIANT GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 6
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Best Local Similarity
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                                                                  Matches
                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                 TITLE OF INVENTION: Biosynthetic Gene Cluster for Leptomycin FILE REFERENCE: 010092.02 CURRENT APPLICATION NUMBER: US/10/937,730A CURRENT FILING DATE: 2004-09-08 PRIOR APPLICATION NUMBER: 60/502,423 PRIOR FILING DATE: 2003-09-11 PRIOR FILING DATE: 2003-09-11
                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/553,384
PRIOR FILING DATE: 2004-03-15
NUMBER OF SEQ ID NOS: 11
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APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_78833C.1.pep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                   ORGANISM: Streptomyces sp. ATCC 39366
                                                                                                                                                                      TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 664
1930 VGDVGD 1935
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                                 1 IGDIGD 6
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                                                                  2; Mismatches
                                                                                Score 30; DB 17;
Pred. No. 8.4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 30; DB 16;
Pred. No. 1.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                Length 3415;
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                                                                                                                                                                                                                         RESULT 42
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APPLICANT: Kovalic David K
APPLICANT: Kovalic David K
APPLICANT: Cao Yinua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5322)B
FULE REFERENCE: 38-21(5322)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT APPLICATION VIMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 227900
LENGTH: 73
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
PRATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants FILE REFERENCE: 38-21(5)222)B CURRENT APPLICATION NUMBER: US/10/425,115 CURRENT FILING DATE: 2003-04-28 NUMBER OF SEQ ID NOS: 369326 SEQ ID NO 253571 LENGTH: 79
TYPE: PRT
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Sequence 263936, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La ROSa Thomas J
APPLICANT: Kovalic David K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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Best Local S
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Best Local
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Zea mays FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 29; DB
Pred. No. 2.5e
2; Mismatches
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Pred. No. 2.3e+02;
2; Mismatches 0
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21 (15322)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 355214
LENGTH: 152
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ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_80353C.1.pep
US-10-424-599-263936
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; OTHER INFORMATION: Clone ID:
US-10-425-115-355214
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US-10-767-701-60220
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Best Local S
Matches 4
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SEQ ID NO 263936
LENGTH: 90
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                                                                                                                                       Sequence 60220, Application US/10767701
Publication No. US20040172684A1
GENERAL INFORMATION:
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Best Local (
APPLICANT: Kovalic, David K.

APPLICANT: Zhou, Yihua
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
FILE REFERENCE: 38-21(53535)B
CURRENT APPLICATION NUMBER: US/10/767,701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: La Rosa, Thomas J. APPLICANT: Kovalic, David K. APPLICANT: Zhou, Yihua
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APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)8
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
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LOCATION: (1)..(152)
OTHER INFORMATION: U
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ORGANISM: Zea mays
FEATURE:
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    Mismatches

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Pred. No. 2.9e+02;
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US-10-767-701-60220
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NUMBER OF SEQ ID NOS: 63128
SEQ ID NO 60220
LENGTH: 174
                                                                                                                                                                                                                                       Sequence 201329, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21 (53221) B CURRENT APPLICATION NUMBER: US/10/437,963 CURRENT FILING DAYE: 2003-05-14 NUMBER OF SEQ ID NOS: 204966 SEQ ID NOS: 204966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 146654, Application US/10437963 Publication No. US20040123343A1
                                 NUMBER OF SEQ ID NOS: 369326
SEQ ID NO 201329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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APPLICANT:
APPLICANT:
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                                                                                                         APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
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APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
                                                                        CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
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ORGANISM: Sorghum bicolor
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ORGANISM: Oryza sativa
FEATURE:
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TYPE: PRT
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                   ENGTH: 189
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Barbazuk, Brad
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Pred. No. 6.2e+02;
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Pred. No.
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5.8e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 16; Length 187;
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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION UNDER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
LENGTH: 321
TYPE: PPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_55729C.1.pep
US-10-437-963-156021
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APPLICANT: Wu, Wei
APPLICANT: Wu, Wei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Boukharov, Andrey A.
APPLICANT: Li, Ping
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 102521
LENGTH: 355
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Matches 5; Conser
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FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_115198C.1.pep
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Yihua
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Pred. No. 1.1e+03;
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Pred. No.
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APPLICANT: Screen, Steven E
APPLICANT: Kovalic, David K.
APPLICANT: Screen, Steven E
APPLICANT: Tabaska, Jack E
APPLICANT: Tabaska, Jack E
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53313)B
CURRENT APPLICATION UNMEBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 45513
LENGTH: 422
TYPE, no.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
APPLICANT: HORIKAWA, JUN
APPLICANT: HORIKAWA, HIROSHI
APPLICANT: SHIBA, TADAYOSHI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: SAKAKI, YOSHIYUKI
APPLICANT: HATTORI, MASAHIRA
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-262
CURRENT APPLICATION NUMBER: US/10/156,761
CURRENT FILING DATE: 2002-05-29
PRIOR APPLICATION NUMBER: UP 2001-204089
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR APPLICATION NUMBER: JP 2001-272697
PRIOR FILING DATE: 2001-08-02
NUMBER OF SEQ ID NOS: 15109
SEQ ID NO 14669
LENGTH: 393
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; OTHER INFORMATION: Clone ID: PAT_MRT4530_100035C.1.pep
US-10-437-963-102521
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US-10-156-761-14669
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; ORGANISM: Zea mays
; FEATURE:
OTHER INFORMATION: Clone ID: 700451402_FLI.pep
US-10-425-114-45513
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Best Local Similarity 66.7%;
Matches 4; Conservative
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Publication No. US20030119018A1
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Best Local Similarity 66.7%;
Matches 4; Conservative
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APPLICANT: IKEDA, HARUO
APPLICANT: ISHIKAWA, JUN
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Pred. No. 1.4e+03;
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Query Match 90.6%; Score 29; DB 15; Length 422;
Best Local Similarity 66.7%; Pred. No. 1.5e+03;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps
Qy 1 IGDIGD 6
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pb 246 LGDVGD 251
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Post-processing: Minimum Match 0%
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14.803 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	ر.	4.	ω	2	_	No.	Result
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hypothetical prote	hypothetical prote		helix-turn-helix c	cell filamentation	hypothetical prote	protein F22G5.16 [collagen alpha cha	4-alpha-glucanotra	transcription fact	subtilisin-like pr	coenzyme F420-redu	6-phosphofructokin	hypothetical prote	uracil phosphoribo	hypothetical proce	DNA gyrase chain B	DNA topoisomerase		hypothetical prote	C-reactive protein		C-reactive protein		cofilin, muscle -	õ	coat protein - pea	1	н	Description	

RESULT 2 F97008

A;Molecule type: DNA A;Residues: 1-190 «KUR» A;Residues: 1-190 «KUR» A;Cross-references: UNIPROT:Q97KN6; GB:AE001437; PIDN:AAK78857.1; PID:g15023777; GSPDB:C A;Experimental source: Clostridium acetobutylicum ATCC824 C;Genetics:

A;Accession: F97008 A;Status: preliminary

R;Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.
J. Bacteriol. 183, 4823-4838, 2001

A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clo A;Reference number: A96900; MUID:21359325; PMID:21359325

hypothetical protein CAC0881 [imported] - Clostridium acetobutylicum C;Species: Clostridium acetobutylicum C;Date: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 09-Jul-2004 C;Accession: F97008

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324	296	295	285	256	231	222	212	196	183	154	147	115	35	695	684	441	441	427	347
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probable glycosyl		hypothetical prote	probable oxidoredu	cell surface antig	hypothetical prote	tungsten formylmet	Mutator-like trans	hypothetical prote	phycocyanin alpha	probable transcrip	hypothetical prote	nitrogen regulator	ferredoxin-NADP re	hypothetical prote	probable integral	nitrogenase (EC 1.	nitrogenase (EC 1.	conserved hypothet	oxidoreductase - S

ALIGNMENTS

D36943

k;Deckers, H.M.; Voordouw, G. J. Bacteriol. 176, 351-358, 1994 A;Title: Identification of a large family of genes for putative chemoreceptor proteins A;Reference number: A36943; MUID:94117369; PMID:8288529 A;Areters. D36943 Ś A;Molecule type: DNA A;Residues: 1-71 <DEC A;Cross-references: UNIPROT:Q46589; GB:L26013 A;Cross-references: UNIPROT:Q46589; GB:L26013 A;Note: authors translated the codon GGC for residue 9 as Ala, GGT for TG for residue 62 as Ser, ACC for residue 65 as His, AAC for residue chemoreceptor protein dcrD - Desulfovibrio vulgaris (strain Hildenborough) (fragment) C;Species: Desulfovibrio vulgaris C;Date: 07-Jul-1995 #sequence_revision 07-Jul-1995 #text_change 09-Jul-2004 C;Accession: D36943 맑 A;Status: preliminary Query Match Matches Local 6 Similarity IGDIGD 6 Conservative 100.0%; Score 32; Di 100.0%; Pred. No. 9; :ive 0; Mismatches DB 2; Length 71; 0; Indels GGT for residue 47 as esidue 66 as Ser, GTC 1 0 Gaps 0 for

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C;Species: Mus musculus (house mouse)
C;Date: 07-Oct-1994 #sequence_revision 07-Oct-1994
C;Accession: A53812
R;Ono, S; Minami, N.; Abe, H.; Obinata, T.
J. Biol. Chem. 269, 15280-15286, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Plant Mol. Biol. 17, 175-177, 1991
A; Title: Nucleotide sequence analysis of a cDNA clone encoding A; Reference number: S16584; MUID:91329730; PMID:1868220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           coat protein - peanut stunt virus
(;Species: peanut stunt virus
(;Date: 13-Jan-1995 #text_change
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change
C;Accession: $16584
R;Naidu, R.A.; Collins, G.B.; Ghabrial, S.A.
Plant Mol. Biol. 17, 175-177, 1991
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S16584
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Abe, H.; Endo, T.; Yamamoto, K.; Obinata, T.
Biochemistry 29, 7420-7425, 1990
A;Title: Sequence of cDNAs encoding actin depolymerizing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Gallus gallus (chicken)
C;Date: 12-Oct-1990 #sequence_revision 27-Jun-1994 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-166 < ABE>
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A; Residues: 1-225 <NAI>
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                                                                                                                                                                                                                                                                                                                 ;Keywords: actin binding; phosphoprotein;26-36/Region: nuclear location signal
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R;Dowton, S.B.; Holden, S.N.
Biochemistry 30, 9531-9538, 1991
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C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
C;Accession: A40326; B40326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-166 <ONO>
A;Cross-references: UNIPROT:P14847; GB:X13588; R;Whitehead, A.S.; Zahedi, K.; Rits, M.; Morte Biochem. J. 266, 283-290, 1990
A;Title: Mouse C-reactive protein. Generation A;Reference number: S08286; MUID:90179719; PMI
                                                                                                                           R;Ohnishi, S.; Maeda, S.; Nishiguchi, S.; Arao, T.; Shin Biochem. Biophys. Res. Commun. 156, 814-822, 1988 A;Title: Structure of the mouse C-reactive protein gene. A;Reference number: A31583; MUID:89050112; PMID:3190681 A;Accession: A31583
                                                                                                                                                                                                                   C-reactive protein precursor - mouse C;Species: Mus musculus (house mouse) C;Date: 28-Feb-190 #sequence revision C;Accession: A31583; S08286
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C; Keywords: pentamer
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A;Cross-references: GB:J05343; GB:S56005
C;Comment: This protein, unlike its homo
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C;Superfamily: cofilin
C;Keywords: actin binding; muscle
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C; Superfamily: C-reactive
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A; Residues: 1-225 < DOW>
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                                                                                           A;Residues: 1-225 <OHN>
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Pred. No. 52;
1; Mismatches
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codon CTA for residue
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   ion of cDNA clones, PMID:2310378
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Lelias, J.M.
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A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-133,'P',135-225 <WHI>
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A;Molecule type: mRNA
A;Residues: 1-230 <RAS>
A;Cross-references: UNIPROT:P48199; GB:M83176; NID:g203591;
A;Cross-reference extracted from NCBI backbone (NCBIP:80758)
                                                                                                                                                                                                                    R;Rassouli, M.; Sambasivam, H.; Azadi, P.; Dell, A.; Morris, H.R. J. Biol. Chem. 267, 2947-2954, 1992
A;Title: Derivation of the amino acid sequence of rat C-reactive A;Reference number: A42579; MUID:92147634; PMID:1737750
A;Accession: A42579
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C;Keywords: acute phase; liver; pentamer; pentraxin; plasma
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-225/Product: C-reactive protein #status predicted <MET
F;55-116/Disulfide bonds: #status predicted
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C;Species: Cavia porcellus (guinea pig)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change
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C; Superfamily: (
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                                                                                                          A;Note: sequence extracted from NCBI backbone (NCBIP:80758) C;Superfamily: C-reactive protein C;Keywords: acute phase; liver; pentamer; pentraxin; plasma
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C; Species: Rattus norvegicus (Norway rat)
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A; Residues: 1-225 < RUB:
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R;Rubio, N.; Sharp, P.M.; Rits, M.; Zahedi, K.; Whitehead, A.S.
J. Biochem. 113, 277-284, 1993
S
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N;Alternate names: CRP
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Pred. No.
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Pred. No. 54;
1; Mismatches
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RESULT 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C; blate: U3-V4-C; C; Accession: C75597
C; Accession: C75597
R; White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, F, White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, F, M.; Shen, M.; Vamathevan, J.C.; Fraser, C.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein F27C1.8 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
DNA topoisomerase (ATP-hydrolysing) (EC 5.99.1.3) - Rickettsia conorii (str: C;Species: Rickettsia conorii (c;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004 C;Accession: D97810 C;Accession: D97810 R;Ogata, H.; Audic, S.; Renesto-Audiffren, P.; Fournier, P.E.; Barbe, V.; Science 293, 2093-2098, 2001
                                                                                                          RESULT 12
D97810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S.; Smith, H.O.; Venter, J.C
Science 286, 1571-1577, 1999
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A; Accession: T29528
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A;Experimental source: strain Bristol N2; clone F27C1
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C; Superfamily: 1
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A; Residues: 1-364 < WHI>
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Matches S
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83.3%;
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T.; Zalewski,
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Samson,

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A;Title: Mechanisms of Evolution in Rickettsia conorii and Rickettsia prowazekii.
A;Reference number: A97700; MUID:21442074; PMID:11557893
A;Accession: D97810
                                                                                                                                                                                                                      M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; IDNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the A;Reference number: A71000; MUID:98344137; PMID:9679194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,Title: The genome sequence of Rickettsia prowazekii and the origin of mitochondria. A,Reference number: A71630; MUID:99039499; PMID:9823893 A,Accession: A71663
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R;Andersson, S.G.E.; Zomorodipour, A.; Andersson, J.O.; Sicheritz-Ponten, T.;
Nature 396, 133-140, 1998
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C;Species: Ricket
C;Date: 21-Nov-19
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C;Superfamily: DNA topoisomerase
C;Keywords: isomerase
                                                                                                A;Cross-references: UNIPROT:058846; GB:AP000005; NID:g3236132; PIDN:BAA30218.1; PID:g323A;Experimental source: strain OT3
A;Experimental source: strain OT3
A;Note: this accession replaces an interim accession for a sequence replaced by GenBank
                                                                                                                                                                                                                                                                                            R;Kawarabayasi, Y.; Sawada, M.; M.; Ohfuku, Y.; Funahashi, T.;
                                                                                                                                                                                                                                                                                                                                  C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 12-Jul-2004 C;Accession: H71052
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                                                                                                                                                        A; Residues: 1-156 < KAW>
                                                                                                                                                                          A; Molecule type: DNA
                                                                                                                                                                                        A;Status: preliminary; nucleic acid sequence
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C;Species: Pyrococcus horikoshii
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;Experimental source: strain Madrid E
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Pred. No. 2.2e+02;
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J.; Kushida,
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C;Gene
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                                                                                                                                                                                  A;Molecule type: DNA
A;Residues: 1-208 <KUR>
A;Cross-references: UNIPROT:Q8UH84; GB:AE008688;
A;Experimental source: strain C58 (Dupont)
                                                                                                                                                                                                                                                                   A,Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58 A,Reference number: AB2577; MUID:21608550; PMID:11743193 A,Accession: A12674
                                                                                                                                                                                                                                                                                                                                                                                     C;Accession: AI2674
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, erage, G.; Gillet, W.; Grant, C.; Guenthner,
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                                                                                                                                                                                                                                                                                                                                  ; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
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                                                                                                                                                                                                                                                      Status: preliminary
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Accession: F70485
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6-phosphofructokinase (EC 2.7.1.11) - Bacillus stearothermophilus N;Alternate names: phosphofructokinase 1; phosphohexokinase C;Species: Bacillus stearothermophilus C;Date: 30-Sep-1980 #sequence revision 14-Jul-1994 #text_change 09-Jul-2004 C;Accession: A27474; A00605; S29784
                                                                                                                        C;Accession: H69143
C;Accession: H69143
C;Accession: H69143
R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Pinth, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Oiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 1997
J. Bacteriol. 179, 7135-7155, 1997
J. Bacteriol. 179, 7135-7155, 1997
A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: fur A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: fur A;Reference number: A69000; MUID:98037514; PMID:9371463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Gene: Bs-pfk
A;Start codon: GTG
A;Start codon: GTG
C;Superfamily: ATP-dependent phosphofructokinase, prokaryotic type; 6-phosphofructokinase
C;Keywords: allosteric regulation; ATP; glycolysis; homotetramer; phosphotransferase
F;4-278/Domain: 6-phosphofructokinase 1 homology <6PF1>
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A;Reference number: A93208; MUID:79199719; PMID:156307
A;Rote: each chain of the active enzyme consists of two domains; domain 1 consists appro A;Note: the 6-phosphate group of fructose 6-phosphate (F6P) is bound by His-246 from one d to Asp-124; the sugar ring is bound by Arg-249, Met-166; Glu-219, and Asp-124. ATP is A;Note: the main interaction with ADP appears to be with the beta-phosphate group, which 2 and Thr-155; the phosphate group of phosphoenolpyruvate appears to bind in the same pl
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A; Residues: 1-319 <FRE>
A; Residues: 1-319 <FRE>
A; Cross-references: UNIPROT: P00512; GB: M15643; NID: g143311;
A; Cross-references: UNIPROT: P00512; GB: M15643; NID: g143311;
R; KOlb, E:; Hudson, P.J.; Harris, J.I.
Eur. J. Biochem. 108, 587-597, 1980
Eur. J. Biochem. 108, 587-597, 1980
A; Title: Phosphofructokinase: complete amino-acid sequence of A; Reference number: A91097; MUID: 81003881; PMID: 6447595
A; Accession: A00605
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                                                                                                                                                                                                                                                                                                                                             coenzyme F420-reducing hydrogenase, beta subunit homolog - Methanobacterium thermoautotz
C;Species: Methanobacterium thermoautotrophicum
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
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Eur. J. Biochem. 211, 851-859, 1993
Eyr. J. Blochem. 211, 851-859, 1993
A;Title: Molecular cloning and nucleotide sequence of the gene sphofructokinase and pyruvate kinase constitute an operon.
A;Reference number: S29783; MUID:93170322; PMID:8436141
A;Accession: S29784
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                                 A; Molecule type: DNA
A; Residues: 1-406 < MTH>
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A; Residues: 300-319
                                                                                         A; Status: preliminary; nucleic
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A;Cross-references: UNIPROT:O26441; GB:AE000819; GB:AE000666;
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NID:g2621396; PIDN:AAB8484
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   transcription factor relB - African clawed frog
C;Species: Kenopus laevis (African clawed frog)
C;Date: 15-Feb-1996 #sequence_revision 23-Feb-19
C;Accession: S60161; S60162
R;Suzuki, K.; Yamamoto, T.; Inoue, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: DNA
A; Residues: 1-478 < STE>
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A;Map position: 15R
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Matches 5
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A;ACCEBBLUM
A;Molecule type: DNA
A;Residues: 1-478 <PET>
A;Cross-references: EMBL:Z74911; NID:g1420091; PIDN:CAA99191.1; PID:g1420092;
A;Cross-references: strain S288C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross references: UNIPROT:P25036; EMBL:U43491; NID:g1150992; R;Pettersson, B.; Sterky, F.; Uhlen, M. submitted to the Protein Sequence Database, July 1996 A;Reference number: S66682 A;Accession: S66868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Experimental source: strain C;Genetics:
A;Gene: MTH341
C;Superfamily: formate dehydro
                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Sterky, F.; Holmberg, A.; Pettersson, B.; U
Yeast 12, 1091-11095, 1996
A;Title: The sequence of a 30 kb fragment on
A;Reference number: S72130; MUID:97051599; PN
A;Accession: S72135
                                                                                   C;Keywords: hydrolase; serine proteinase F;1-20/Domain: slynal sequence #status predicted <SIG> F;21-478/Product: subtilisin-like proteinase YSP3 #status predicted F;204-421/Domain: subtilisin homology <SBT> F;213,245,407/Active site: Asp, His, Ser #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Sterky, F.; Uhlen, M. submitted to the EMBL Data Library, December 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              subtilisin-like proteinase (EC 3.4.21.-) YSP3 precursor - N;Alternate names: protein O2517; protein UNC478; protein
                                                                                                                                                                                                                                                                                                                            A;Cross-references: EMBL:U43491; NID:g1150992; PIDN:AAC49482.1; PID:g1150998 A;Note: the nucleotide sequence was submitted to the EMBL Data Library, December
                                                                                                                                                                                                       ;Superfamily: subtilisin; subtilisin homology
                                                                                                                                                                                                                                                                                                                                                                                                                       acid sequence not shown; translation not
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                 Score 30;
Pred. No.
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Pred. No.
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Mismatches
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YOR003w; subtilisin-like
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23-Feb-1996

#text_change 09-Jul-2004

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A;Gene: relb
C;Superfamily
C;Keywords: D
F;78-367/Doma
C;Species: Ephydatia muelleri
C;Date: 16-Nov-1990 #sequence_revision 13-Sep-1991 #text
C;Accession: A36046
R;Exposito, J.Y.; Garrone, R.
Proc. Natl. Acad. Sci. U.S.A. 87, 6669-6673, 1990
A;Title: Characterization of a fibrillar collagen gene:
A;Reference number: A36046; MUID:90370847; PMID:2395869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Reference number: S74322; MUID:97061201;
A;Accession: S74648
A;Status: nucleic acid sequence not shown;
A;Molecule type: DNA
A;Residues: 1-505 <KAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4-alpha-glucanotransferase malQ - Synechocystis sp. N;Alternate names: hypothetical protein sll1676 C;Species: Synechocystis sp. A;Variety: PCC 6803 C;Date: 25-Apr-1997 #sequence_revision 25-Apr-1997 #C;Accession: $74648 R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asam
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Suzuki, K.; Yamamoto, T.; Inoue, J.
Nucleic Acids Res. 23, 4664-4669, 1995
A;Title: Molecular cloning of cDNA encoding the Xenopus
A;Reference number: S60162; MUID:96103597; PMID:8524658
A;Accession: S60162
A;Status: nucleic acid sequence not shown
A;Molecule type: mRNA
A;Residues: 78-367 <SUW>
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                                                                                                                                                                                                                                                                                                                                                                                                       A;Gene: malQ
C;Superfamily: 4-alpha-glucanotransferase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA Res. 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocysti
                                                                                      collagen alpha chain - freshwater sponge (Ephydatia muelleri) (fragment) (;Species: Ephydatia muelleri C;Date: 16-Nov-1990 #sequence_revision 13-Sep-1991 #text_change 09-Jul-2 C;Accession: A36046
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C;Genetics:
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A;Cross-references: UNIPROT:P51510; EMBL:D63332; NID:g1109657; PID:d1010291; PID:g110965
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Best Local
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K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasud
A Res. 3, 109-136, 1996
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83.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 30; DB
Pred. No. 2e+0
1; Mismatches
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Pred. No. 2.
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submitted to
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2e+02;
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2.1e+02;
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    A; Experimental source: strain H37Rv C; Genetics:
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R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.R.; Dew ansen, N.F.; Hughes, B.; Huizar, L. Nature 408, 816-820, 2000

A.Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; C.A.; Li, J.H.; Lin, X.; Lin, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Ma Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H. A.Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; T. A.Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; T. Ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A.; Fitle: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A.Recercie. Page 200
                                                                                               A;Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G. A;Title: Deciphering the biology of Mycobacterium tuberculosis from the complete A;Reference number: A70500; MUID:98295987; PMID:9634230
A;Accession: A70914
                                                                                                                                                                                                                   R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
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A; Residues: 1-84 <STO>
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C;Species: Arabidopsis thaliana (mouse-ear cress)
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A; Residues: 1-547 <EXP>
A;Cross-references: UNIPROT:P71714; GB:Z80775; GB:AL123456; NID:g3250715; PIDN:CAB02535.1
                                           A; Molecule type:
                                                                                                                                                                                                 Rajandream, M.A.; Rogers, Nature 393, 537-544, 1998
                                                                                                                                                                                                                                                                                                                       C;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 09-Jul-2004
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                            A; Residues: 1-173 < COL>
                                                                                                                                                                                                                                                                                                C; Accession: A70914
                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein Rv0057 - Mycobacterium tuberculosis (strain H37RV)
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                                                                     Status: preliminary; nucleic acid sequence not
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4; Conserva
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Pred. No.
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Pred. No.
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N.; Holroyd,
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C;Accession: AG3239
R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, erage, G; Gillet, W.; Grant, C.; Guenthner, I; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
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C; Superfamily:
                                                                                                                                                                                  A;Residues: 1-218 <PAR>
A;Cross-references: UNIPROT:O9PWR3; GB:AL139078; GB:AL111168; NID:g6968723; PIDN:CAB7381
A:Experimental source: serotype O2, strain NCTC 11168
                                                                                                                                                                                                                                                                                   A;Title: The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypa;Reference number: A81250; MUID:20150912; PMID:10688204
A;Accession: H81283
                                                                                                                                                                                                                                                                                                                                    helix-turn-helix containing protein Cj1387c [imported] - Campylobacter jejuni C;Species: Campylobacter jejuni C;Species: Campylobacter jejuni C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004 C;Accession: H81283 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004 C;Accession: H81283 #xen, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, Nature 403, 665-668, 2000
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A;Title: The Genome of the Natural Genetic
A;Reference number: ABZ577; MUID:21608550;
A;Accession: AG3239
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A;Residues: 1-198 <KUR>
A;Cross-references: UNIPROT:Q8U638; GB:AE008690; PIDN:AAL46333.1; PID:g17744120; GSPDB:
A:Experimental source: strain C58 (Dupont)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AG3239
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167 LGDVGD 172
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Pred. No. 1.3e
1; Mismatches
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Pred. No. 99;
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T.; Levy, R.; Li, M.; N
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A;Cross-references: UNIPROT:Q21039; EMBL:Z68005; PIDN:CAA91992.1; GSPDB:GN00028; CESP:F5
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A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, A;Reference number: A82950; MUID:20437337; PMID:10984043 A;Accession: H83610
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C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-J
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-J
C;Accession: H83610
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
                                                                                                                                                                                                                   RESULT
T23006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hypothetical protein SCH35.36c - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:Q916K2;
A;Experimental source: strain PAO1
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                                                                            hypothetical protein F59F3.2 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T23006
R;Kershaw, J.
submitted to the EMBL Data Library, November 1995
A;Reference number: Z19651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Experimental source: strain A3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Cross-references: UNIPROT: Q9X8X0;
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A; Residues: 1-320 <OLI>
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A; Accession: T36623
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Accession: T36623
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A; Residues: 1-318 <STO>
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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-338 <WILL>
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                                                           A; Reference number: A; Accession: T23006
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Pred. No. 2e+(
2; Mismatches
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Pred. No. 2e+02;
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL:AL078610; PIDN:CAB44391.1;
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1999
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2e+02;
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A.; Larbig, K.; Lim,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GSPDB:GN00070;
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Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Species: Streptomyces coelicolor
C;Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 09-Jul-2004
C;Accession: T34919
R;Oliver, K.; Harris, D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, January 1998
A;Reference number: Z21558
A;Reference number: Z21558
A;Raccession: T34919
A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                             conserved hypothetical proteins homolog lmo1845 [imported] - Listeria monocytogenes (str
C;Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 09-Jul-2004
C;Accession: AE1305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPROT:054156; A;Experimental source: strain A3(2) C;Genetics:
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                 á
                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-427 <GLA>
                                                                                                                                                                                                                                                                                                                                                                                                        R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecke
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C;Superfamily: Escherichia coli UDPglucose 4-epimerase; UDPglucose
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A; Residues: 1-347 < OLI>
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A;Map position: X
                                                                                                                                                                                    A;Cross-references: UNIPROT:Q8Y655; GB:NC_003210; PIDN:CAC99923.1; PID:g16411299; GSPDB
A;Experimental source: strain EGD-e
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                                                                                                                                                                                                                                                           A; Status: preliminary
                                                                                                                                                                                                                                                                            A; Accession: AE1305
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Matches 4
                                                                                                                            Superfamily:
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                   1 IGDIGD
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Pred. No. 2.2e+02;
2; Mismatches (
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                                                                      Score 29; DB 2;
Pred. No. 2.7e+02;
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Pred. No. 2.1e+02;
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RESULT
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A,Cross-references: UNIPROT:P12781; GB:AE006469; PIDN:AAK65136.1; PID:g14523576; GSPDB:GNA; Gross-references: UNIPROT:P12781; Megaplasmid pSymA A; Experimental source: strain 1021, megaplasmid pSymA R; Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, pela, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T. Science 293, 668-672, 2001
A; Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Weils, D.H.; Wong, K.; Yeh, K.(A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A; Reference number: A96039; MUID:21368234; PMID:11474104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bowse, Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C., Proc. Natl. Acad. Sci. U.S.A. 98, 9883-9888, 2001
A;Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilota, Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium melilota, Reference number: A95262; MUID:21396509; PMID:11481432
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F95321
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C;Superfamily: dinitrogenase beta chain
C;Keywords: ATP; nitrogen fixation; oxidoreductase
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A;Title: Rhizobium meliloti nifN (fixF) gene is part of A;Reference number: A91851; MUID:88058743; PMID:3316182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nitrogenase (EC 1.18.6.1) molybdenum-iron protein beta chain - Rhizobium meliloti C;Species: Rhizobium meliloti C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 09-Jul-2004 C;Accession: C28379
                                                                                                                                                                                                                     C; Superfamil C; Keywords:
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A;Molecule type: DNA
A;Residues: 1-441 <KUR>
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C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004
C;Accession: F95321
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A; Residues: 1-441 < AGU>
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                                                                                                         Matches
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Pred. No.
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Pred. No.
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2; Mismatches
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K.C.,
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R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y. M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M., VanAken, S.E.; Umayam, L.; Tallon, euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Frassr, C.M.; Venter, Nature 402, 761-768, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein At2g24250 [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
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A;Residues: 1-684 <SEE>
A;Cross-references: UNIPROT:Q9$282;
A;Experimental source: strain A3(2)
C;Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probable integral membrane protein - Streptomyces coelicolor
C;Species: Streptomyces coelicolor
C;Date: 03-Dec_1999 #sequence_revision 03-Dec-1999 #text_change
                                                                                                                                                  R;Marraffini, L.A.; Ceccarelli, E.A. submitted to the EMBL Data Library, April 1 A;Description: Involvement of tyrosine-114
                                                                                                                                                                                                     C;Species: Pisum sativum (garden pea)
C;Date: 30-Apr-1999 #sequence_revision 30-Apr-1999
C;Accession: T06376
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A;Accession: T36771
A,Status: preliminary; translated
A;Molecule type: mRNA
A;Residues: 1-35 <MAR>
A;Cross-references: UNIPROT:O65208
C;Genetics:
A;Genome: nuclear
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A;Reference number: A84420; MUID:20083487; PMID:10617197
                                                                                                               A; Reference number: Z15636
A; Accession: T06376
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                                                                                                                                                                                                                                                                ferredoxin-NADP reductase (EC 1.18.1.2) -
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Matches 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Molecule type: DNA
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;Cross-references: UNIPROT:Q9ZUH0; GB:AE002093; NID:g4115385; PIDN:AAD03386.1; GSPDB:GN
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                                       UNIPROT: 065208; EMBL: AF057182; NID: g3088653; PIDN: AAC14746.1;
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A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-147 <SIM>A;Conservefevences: UNIPROT:Q9P9Y8; GB:AE004079; GB:AE003849; NID:g9107960; PIDN:AAF8551
A;Cross-refevences: UNIPROT:Q9P9Y8; GB:AE004079; GB:AE003849; NID:g9107960; PIDN:AAF8551
A;Experimental source: strain 9a5c
A;Experimental source: strain 9a5c
A;Simpson, A.J.G.; Resinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S.
as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S.
as-Neto, E.; Docena, C.; El-Dorry, H.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm
A;Authbors: Ferreira, V.C.A.; Ferro, J.A.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laige
Chado, M.A.; Madeira, M.M.B.N.; Madeira, H.M.F.; Marxino, C.L.; Marques, M.V.; Martins, E.M.F.; Matskuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.,
A;Authors: Martins, E.M.F.; Matskuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Palmieri, D.A
,F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A

R,anonymous, The Xylella fastidiosa Consortium of the Organization for Nature 406, 151-157, 2000

A,Title: The genome sequence of the plant pathogen Xylella fastidiosa. A,Reference number: A82515; MUID:20365717; PMID:10910347

A,Note: for a complete list of authors see reference number A59328 bel

see reference number A59328 below

A; Status: preliminary A; Accession: E82523 hypothetical protein XF2732 [imported] - Xylella fastidiosa (strain 9a5c) C;Species: Xylella fastidiosa C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-20

20-Aug-2000 #text_change 09-Jul-2004

for

Nucleotide

E82523

RESULT

C; Accession:

E82523

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C; Keywords: purc. F;54/Binding site:
                                                                                                                               A;Start codon: GTG
A;Start codon: GTG
C;Superfamily: regulatory protein P-II
C;Keywords: phosphoprotein; signal transduction
C;Keywords: phosphoprotein; covalent) #status
                                                                                                                                                                                                                                                                                                                                                 A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta A;Reference number: A69000; MUID:98037514; PMID:9371463 A;Accession: D69188
                                                                                                                                                                                                                                                                                                                                                                                                     R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155; 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Superfamily: ferredoxin-NADP+ reductase; cytochrome-b5 reductase homology C;Keywords: chloroplast; electron transfer; FAD; flavoprotein; NADP; oxidoreductase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C; Accession: D69188
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C;Date: 05-Dec-1997 #sequence_revision
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Pred. No.
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H
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A;Status: preliminary; nucleic acid sequence A;Molecule type: DNA A;Residues: 1-183 <MTH>
A;Cross-references: UNIPROT:027834; GB:AE0009 A;Experimental source: strain Delta H
                                                                                                                                                                                                                                                                                                     phycocyanin alpha phycocyanobilin lyase CpcE - Methanobacterium thermoautotrophicum C;Species: Methanobacterium thermoautotrophicum C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004 C;Accession: D69108
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A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K. A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: A96039; MUID:21368234; PMID:11474104
                                                                                                                                              R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 197
A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: fur A;Reference number: A69000; MUID:98037514; PMID:9371463
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R;Finan, T.M.; Weidner, S.; Wong, K.; Buhrmester, J.; Chain, P.; Proc. Natl. Acad. Sci. U.S.A. 98, 9889-9894, 2001
A;Title: The complete sequence of the 1,683-kb pSymB megaplasmid A;Reference number: A95842; MUID:21396508; PMID:11481431
A;Accession: F95938
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D69108
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A; Residues: 1-154 < KUR>
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C;Species: Sinorhizobium meliloti
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A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da
M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore,
                                                                                                                         A; Accession: D69108
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100.0%; Pred. No.
tive 0; Mismatc
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Pred. No. 1.3e+02;
2; Mismatches 0
          GB:AE000934; GB:AE000666; NID:g2622924; PIDN:AAB862:
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RyChissoe, S.

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Bubmitted to the EMBL Data Library, July 1995

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Introns: 69/2; 115/2; 133/3 C;Superfamily: glycine-rich RNA-binding protein; ribonucleoprotein repeat homology F;20-87/Domain; ribonucleoprotein repeat homology <RRM>
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A;Cross-references: UNIPROT:Q09511; EMBL:U23484; NID:g733597; PID:g733604; PIDN:AAC46767
A;Experimental source: strain Bristol N2
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C;Species: Caenorhabditis elegans
C;Species: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                           A;Reference number: A84420;
A;Accession: F84481
A;Status: preliminary
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C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: F84481
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A;Gene: MTH1806
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A;Map position: 2
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A; Residues: 1-212 <STO>
                                                                                                                                                                                                                                                                                                A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana A;Reference number: A84420; MUID:20083487; PMID:10617197
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                                                                                                                                                                                                                                                                                                                                         Nature 402, 761-768, 1999
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Pred. No.
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Pred. No.
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cell surface antigen homolog [imported] - Rickettsia conorii (strain Malish C;Species: Rickettsia conorii (c;Species: Rickettsia conorii (c;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004 C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004 C;Accession: G97778 R;Ogata, H.; Audic, S.; Renesto-Audiffren, P.; Fournier, P.E.; Barbe, V.; Sa Science 293, 2093-2098, 2001 Science 293, 2093-2098, 2001 A;Title: Mechanisms of Evolution in Rickettsia conorii and Rickettsia prowaz A;Reference number: A97700; MUID:21442074; PMID:11557893 A;Accession: G97778
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C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: G84722
C;Accession: G84722
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii,
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tall
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Ven
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C;Superfamily: glutamate synthase,
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A,Cross-references: UNIPROT:026209; GB:AE000800; GB:AE000666; NID:g2621130; PIDN:AAB8460
A,Experimental source: strain Delta H
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A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
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                                                    Rickettsia prowazekii.
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                                                                                                   Samson,
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         162
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         GDIGD
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R;Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, J.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.
J. Bacteriol. 183, 4823-4838, 2001
A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacter A;Reference number: A96900; MUID:21359325; PMID:21359325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probable oxidoreductase, ortholog of GSP39 B. subtilis CAC1576 [imported] - Clostridium C;Species: Clostridium acetobutylicum C;Date: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 09-Jul-2004 C;Accession: D97094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 1-256 <KUR>
A;Cross-references: UNIPROT:Q92HY9; GB:AE006914; PIDN:AAL03169.1; PID:g15619717; GSPDB:G
                                                                                                                                                                                                                                                                              R;Parkhill, J.; Achtman, M.; James, ; Holroyd, S.; Jagels, K.; Leather, Nature 404, 502-506, 2000
                                                                                                                                                                                                                                                                                                                                     C;Date: 05-May-2000 #sequence_revision 05-May-2000 C;Accession: G81785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Superfamily: ribitol dehydrogenase; short-chain alcohol dehydrogenase homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Gene: RC0631
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                                                                                                   A; Experimental source: C; Genetics:
                                                                                                                                                                                                                 A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: G81785
                                                                                                                                                                                                                                                                                                                                                                         hypothetical protein NMA2138 [imported] - Neisseria meningitidis (strain Z2491 C;Species: Neisseria meningitidis
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                                                                                                                                                          A; Molecule type: DNA
A; Residues: 1-295 < PAR >
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Best Local S
Matches 5
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;Experimental source: Clostridium &
                                                                                                                     Cross-references: UNIPROT:Q9JST9;
Experimental source: serogroup A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               230 GDIGD 234
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87.5%; Er
100.0%; Pr
0;
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100.0%; Pred. No. 2.
Live 0; Mismatches
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        score 28; DB; Pred. No. 2.9
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                                                                                                                         GB:AL162758;
strain Z2491
                                                                                                                                                                                                                                                                                                K.D.; Bentley,
S.; Moule, S.;
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                            DB 2; L
2.9e+02;
                                                                                                                                            GB:AL157959; NID:g7380672; PIDN:CAB8535
                                                                                                                                                                                                                                                                                                  S.D.; Churcher, C.;
Mungall, K.; Quail,
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M.A.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Experimental source: strain 9a5c

R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H
Briones, M.R.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S.

submitted to GenBank, June 2000

A;Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr
J.D.; Junqueira, M.L.; Kemper, E.L.; Kltajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr
Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, E.
A;Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.;
F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A
Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasak
A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveira
M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z
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C;Species: Xylella fastidiosa
C;Date: 18-Nag-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
C;Accession: C28040
R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequent Nature 406, 151-157, 2000
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A;Residues: 1-296 <SIM>
A;Cross-references: UNII
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A; Residues: 1-303 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana A; Reference number: A84420; MUID:20083487; PMID:10617197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           M.; Koo, H.;
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Best Local S
Matches 4
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                                                                                                                                                                                                                                                                                           Gene: At2g33330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; oo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L. D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
                                                                                                                         Local Similarity tes 5; Conserv
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100.0%; Pred. No.
100.0%; Mismatches
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Pred. No. 2.9e+02;
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3e+02;
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adman, 5., 1050n, M.V.
; LOTY, S.; Olson, M.V.
Nature 406, 959-964, 2000
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathog
A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           probable glycosyl transferase PA4819 [imported] - Pseudomonas aeruginosa (strain C;Species: Pseudomonas aeruginosa C;Species: Pseudomonas aeruginosa C;Date: 15-Sep-2000 #text_change 09-Jul-2004 C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004 C;Accession: E83043
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K
Search completed: July 27, 2005, 01:21:13 Job time : 42 secs
                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: UNIPROT:Q9HUZ1; GB:AE004895; GB:AE004091; NID:g9951083; PIDN:AAG08204
A;Experimental source: strain PAO1
                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Status: preliminary
A;Molecule type: DNA
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                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                    87.5%;
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Pred. No. 3.2e+02;
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GO; GO:0004872; F:receptor activity; IEA.
GO; GO:0006935; P:chemotaxis; IEA.
GO; GO:0006935; P:chemotaxis; IEA.
GO; GO:0007155; P:signal transduction; IEA.
InterPro; IPR004089; Chmtaxis transd.
InterPro; IPR004089; Me_chemotaxis.
Pfam; PP00015; McPsignal; 1.
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O1-NOV-1996 (TrEMBLrel. 01, C
01-NOV-1996 (TrEMBLrel. 01, I
01-OCT-2003 (TrEMBLrel. 25, I
Chemoreceptor (Fragment).
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SEQUENCE
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MEDLINE=941.7369; PubMed=8288529;
Deckers H.M., Voordouw G.;
Pidentification of a large family of genes for putative chemoreceptor proteins in an ordered library of the Desulfovibrio vulgaris Hildenborough genome.";
J. Bacteriol. 176.351-358(1994).
EMBL; L26013; AAA23358.1; -.
ENR; D36943, D36943.
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Bacteria; Proteobacteria; Deltaproteobacteria; Desulfovibrionales;
Desulfovibrionaceae; Desulfovibrio.
NCBI_TaxID=881;
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Q89526;
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J. Bacteriol. 183:4833-4838(2001).
EMBL, AE007603, BAK78857.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=ATCC 824 / DSM 792 / VKM B-178
MEDLINE=21359325; PubMed=11466286;
DOI=10.1128/JB.183.16.4823-4838.2001;
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OrderedLocusNames=CAC0881;
Clostridium acetobutylicum.
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Q97KN6;
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                                                                       EMBL; U15730; AAA70087.1;
EMBL; X56544; CAA39885.1;
PIR; S16584; S16584.
                                                                                                                                           Naidu R.A., Collins G.B., Ghabrial S.A.; "Nucleotide sequence analysis of a CDNA clone encoding the coat protein gene of peanut struct virus."; Plant Mol. Biol. 17:175-177(1991).
                                                                                                                                                                                                                                                                                                                                                                 homology.";
                                                                                                                                                                                                                                                                                                                                                                             Naidu R.A., Hu C.-C., "Differentitation of cucumovirus based on a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae; Clostridium.
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01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Coat protein.
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Complete proteome; Hypothetical Protein.
SEQUENCE 190 AA; 22079 MW; 7D6D3F4A38C36F10 CRC64;
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                                                                                                                                                                                                                                      MEDLINE=91329730; PubMed=1868220;
                                                                                                                                                                                                                                                                    STRAIN=ER;
                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                  Phytopathology 85:502-507(1995).
[2]
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Viruses; ssRNA positive-strand viruses,
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                          GO:0019028; C:viral capsid; IEA.
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cuctural molecule activity; IEA.
Cucumovirus_coat.
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Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Begons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Straub M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Thierry A.,
Boucher C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
Weiner C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
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PRINTS; PR00222; CUCUMOCOAT.
ProDom; PD001284; Cucumovirus_coat; 1.
                                                                                                                                                                                                              Glycosyltransferase;
SEQUENCE 229 AA;
                                                                                                                                                                                                                                                                                                                                                                          Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases EMBL; CR382131; CAG79790.1; -
EMBL; CR382131; CAG79790.1; -
GO; GO:0004743; F:pyruvate kinase activity; IEA.
GO; GO:0016757; F:transferrae activity, transferring gl:
GO; GO:0006096; P:glycolysis; IEA.
GO; GO:0009116; P:nucleoside metabolism; IEA.
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SEQUENCE 225 AA;
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ProDom; PD001009; Pyruvate_kinase; 1.
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InterPro; IPR001697; Pyruvate_kinase.
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"Genome evolution in yeas
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STRAIN-A3(2) / M145;

STRAIN-21996410; PubMed=12000953; DOI=10.1038/417141a;

MEDLINE-21996410; PubMed=12000953; DOI=10.1038/417141a;

MEDLINE-21996410; PubMed=12000953; DOI=10.1038/417141a;

MEDLINE-21996410; PubMed=12000953; DOI=10.1038/417141a;

MEDLINE-21996410; PubMed=10.1038/417141a;

MESSEC H., Kieser H., Kieser H., Kieser H., Howarth G., Chandra G., Chen C.W., Collins M., Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S., Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S., Cronin A., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil S., Rabbinowitsch E., Rajandream M.A., Rutherford K.M., Ruther S., Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K., Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K., Wester T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J., Waster T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
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05-JUL-2004
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Submitted (SEP-2003) to the )
EMBL; AE017227; AE302563.1;
InterPro; IPR005142; eRF1_3.
Pfam; PF03465; eRF1_3; 1.
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01-OCT-2000 (TrEMBLrel. 15,
01-JUN-2003 (TrEMBLrel. 24,
Putative transferase
ORFNames=SCC61A.27;
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                                                                                                                                                                                                                                                                                             Nature 417:141-147(2002).
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Bacteria; Actinobacteridae; Actinomycetales;
Streptomycineae; Streptomycetaceae; Streptomyces.
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GO:0016740; F:transferase activity;
GO:0009058; P:biosynthesis; IEA.
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Pred. No.
                                   Score 32;
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       <u>,</u>
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Matches 6
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Pfam; PF00512; HisKA; 1.
Pfam; PF00514; BCTRLSENSOR.
SMART; SM00387; HATPASE C; 1.
SMART; SM00388; HisKA; 1.
PROSITE; PS50109; HIS_KIN; 1.
Complete proteome; Kinase; Phos
                                                                                                                                     Q9HKD4 PRELIMINARY;
Q9HKD4;
Q1-MAR-2001 (TrEMBLrel. 16,
Q1-MAR-2001 (TrEMBLrel. 16,
Q1-MAR-2004 (TrEMBLrel. 26,
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01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Histidine kinase sensor of two-component system.
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Q8G7E9;
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Pridmore R.D., Arigoni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=22294977; PubMed=12381787; DOI=10.1073/pnas.212527599; Schell M.A., Karmirantzou M., Snel B., Vilanova D., Berger B., Pessi G., Zwahlen M.-C., Desiere F., Bork P., Delley M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria; Actinobacteria; Actinobacteridae; Bifidobacteriales;
Bifidobacteriaceae; Bifidobacterium.
Archaea; Euryarchaeota; Thermoplasmataceae; Ther NCBI_TaxID=2303;
                                                                                                 Acyl-CoA synthetase related OrderedLocusNames=Ta0667;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
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                                                                        Thermoplasma acidophilum
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    Phosphorylation; Sensory transduction;

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Pred. No. 4.8e+02;
Mismatches 0;
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GO; GO:0003824; F:catalytic activity; IE
GO; GO:0008152; P:metabolism; IEA.
InterPro; IPR000873; AMP-bind.
Pfam; PF00501; AMP-binding; 1.
PRINTS; PR00154; AMPBINDING.
PROSITE; PS00455; AMPBINDING; 1.
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Q9FDV9;
01-MAR-2001
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SEQUENCE FROM N.A.
SEQUENCE FROM 1728;
STRAIN-DSM 1728;
MEDLINE-20479972; PubMed=11029001; DOI=10.1038/35035069;
Ruepp A., Graml W., Santos-Martinez M.-L., Koretke K.K., Volker C.,
Mewes H.-W., Frishman D., Stocker S., Lupas A.N., Baumeister W.;
"The genome sequence of the thermoacidophilic scavenger Thermoplasma acidophilum.";
                                                                                                                                                                                      Transferase.
Transferase.
585 AA;
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EMBL; AF307842; AAG29840.1; -.

EMBL; AF307842; AAG29839.1; -.

HSSP; O87172; IESM.

GO; GO:0004134; F:4-alpha-glucanotransferase activity; IEA.

GO; GO:0016740; F:transferase activity; IEA.

GO; GO:0005975; P:carbohydrate metabolism; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=22631581; PubMed=12746519; DOI=10.1104/pp.102.016527; Wattebled F., Ral J.P., Dauvillee D., Myers A.M., James M.G., Schlichting R., Giersch C., Ball S.G., D'Hulst C.; "STAIL, a Chlamydomonas reinhardtii locus required for normal starch granule biogenesis, encodes disproportionating enzyme. Further evidence for a function of alpha-1,4 glucanotransferases during starch biographies in green algae.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chlamydomonas reinhardtii.
Eukaryota; Viridiplantae; Chlorophyta; Chlorophyceae; Volvocales;
Chlamydomonadaceae; Chlamydomonas.
                                                                                                                                                                                                                                                InterPro; IPR003385; Glyco_hydro_7
Pfam; PF02446; 4a_glucanotrans; I.
TIGRPAMs; TIGR00217; malQ; 1.
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05-JUL-2004
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                                                                                               Similarity 6; Conserv
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(TrEMBLrel. 27, Last annotation update)
                                                                                                    Conservative
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tive 0;
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tive 0;
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Pred. No. 6
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Pred. No. 5.6e+02;
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                                                                                               6.3e+02;
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RESULT 10
Q87MP
Q87MP
AC Q87MF
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D7 01-JU
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Best Local S
Matches 6
                                                           EMBL; AP004828; BAB95564.1; -. GO; GO:0009986; C:cell surface; IEA. GO; GO:016020; C:membrane; IEA. InterPro; IPR011439; DUF1542. InterPro; IPR011439; FIVAR. InterPro; IPR005877; Gpos YSIRK. InterPro; IPR001899; Gram pos anchor. Pfam; PF07564; DUF1542; 17. Pfam; PF07564; DIVISA; 1. PTGRRAMS; TIGR01167; LPXTG_anchor; 1. TIGRRAMS; TIGR01167; LPXTG_anchor; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIINE=22040717; PubMed=12044378; DOI=10.1016/S0140-6736(02)08 Baba T., Takeuchi F., Kuroda M., Yuzawa H., Aoki K.-I., Oguchi Nagai Y., Twama N., Asano K., Naimi T., Kuroda H., Cui L., Yamamoto K., Hiramatsu K.; "Genome and virulence determinants of high virulence community-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  distinct from that of V. cholerae.";
Lancet 361:743-749(2003).
EMBL; AP005508; BAG60454.1; -.
InterPro; IPR008941; TPR-like.
Complete proteome; Hypothetical protessed protessed and pro
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Lancet 359:1819
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STRAIN=RIMD 221063 / Serotype 03:K6;
STRAIN=RIMD 221063 / Serotype 03:K6;
MEDLINE=22508454; PubMede-12620739; DOI=10.1016/S0140-6736(03)12659-1;
MAKINO K., Oshima K., Kurokawa K., Yokoyama K., Udta T., Tagomori K.,
Iljima Y., Najima M., Nakano M., Yamashita A., Kubota Y., Kimura S.,
Yasunaga T., Honda T., Shinagawa H., Hattori M., Iida T.;
Yasunaga T., Honda T., Shinagawa H., Hattori M., Iida T.;
"Genome sequence of Vibrio parahaemolyticus: a pathogenic mechanism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
Vibrionaceae; Vibrio.
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                                 TIGRFAMS; TIGRO1167;
TIGRFAMS; TIGRO1168;
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52197DEF11AF4E7C CRC64;
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uzawa H., Aoki K.-I., Oguchi A.,
i T., Kuroda H., Cui L.,
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No. 1.5e+03;
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InterPro; IPR005877; Gpos YSIRK.
InterPro; IPR001899; Gram_pos_anchor.
Pfam; PF07564; DUF1542; 17.
Pfam; PF07554; FIVAR; 1.
Pfam; PF04650; YSIRK signal; 1.
TIGRFAMs; TIGR01167; LPXTG_anchor; 1.
TIGRFAMs; TIGR01168; YSIRK signal; 1.
Complete Proteome.
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05-JUL-2004
05-JUL-2004
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Holden M.T.G., Feil E.J., Lindsay J.A., Peacock S.J., Day N.P.J.,
Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., Barron A.
Bason N., Bentley S.D., Chillingworth C., Chillingworth T.,
Churcher C., Clark L., Corton C., Cronin A., Doggett J., Dowd L.,
Feltwell T., Hance Z., Harris B., Hauser H., Holroyd S., Jagels K.,
James K.D., Lennard N., Line A., Mayes R., Moule S., Mungall K.,
Ormond D., Quail M.A., Rabbinowitsch E., Rutherford K.M., Sanders M.
Sharp S., Simmonds M., Stevens K., Whitehead S., Barrell B.G.,
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"Complete genomes of two clinical Staphylococcus aureus strains:
evidence for the rapid evolution of virulence and drug resistance.",
Proc. Natl. Acad. Sci. U.A. 101:9786-9791 (2004).
                                                                 COF2 HUMAN
Q9Y281;
30-MAY-2000
30-MAY-2000
25-OCT-2004
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Bacteria; Firmicutes; Bacillales; Staphylococcus
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Eukaryota; Metazoa;
                  Homo sapiens (Human)
                                     Name=CFL2;
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Pred. No. 2.4e+03;
; Mismatches 0;
Craniata; Vertebrata;
                                                                                                                                             PRT;
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   Euteleostomi;
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RA Strausberg R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., RA Allschul S.F., Zeeberg B., Buetcow K.H., Schaefer C.F., Bhat N.K., RA Altschul S.F., Zeeberg B., Buetcow K.H., Schaefer C.F., Bhat N.K., RA Altschul S.F., Zeeberg B., Buetcow K.H., Schaefer C.F., Bhat N.K., RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RA Brownstein M.J., McKernan K.J., Malek J.A., Gunaratne P.H., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Wilalon D.K., Muzny D.M., Sodergran E.J., Lu X., Gibbs R.A., RA Villalon D.K., Muzny D.M., Sodergran E.J., Lu X., Gibbs R.A., RA Willialon D.K., Muzny D.M., Sodergran E.J., Lu X., Gibbs R.A., RA Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., RA Pahey J., Hall W., Green E.D., Dickson M.C., RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E., Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
MEDLINE=21315834; PubMed=11422377;
MINITIAL Thiring C., Stucka R., Mendel B., Grand R.G., Lochmuller H., Francele
                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
EMBL; AF134802; AAD31280.1;
EMBL; AF134803; AAD31281.1;
EMBL; AF283513; AAF97934.1;
EMBL; AF242299; AAF64498.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=CFLZA;
IBOId=Q9Y281-2; Sequence=Not described;
TISSUE SPECIFICITY: Isoform CFL2b is expressed
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AITERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;-
Event=Alternative splicing; Named isoforms=2;-
                                                                                                                                                                                                                                                                                                                                                                                                                                              SIMILARITY: Belongs to the actin-binding proteins ADF family.
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                                                                                                                                                                        email to license@isb-sib.ch).
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; PubMed=12477932; DOI=10.1073/pnas.242603899;
Feingold E.A., Grouse L.H., Derge J.G.,
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A List Charles M.J., Bonaldo M.A., Rubin G.M., Hong L.,

A Raha S.S., Loquellano N.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Fahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Halkesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

A Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human
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and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
-!- FUNCTION: Controls reversibly actin polymeriza
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SMART; SM00102; ADF; 1.

PROSITE; PS00325; ACTIN DEPOLYMERIZING; 1.

PROSITE; PS00325; ACTIN DEPOLYMERIZING; 1.
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MIM; 6
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"Characterization of a novel cofilin isoform that is
expressed in mammalian skeletal muscle.";
J. Biol. Chem. 269:15280-15286(1994).
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MEDLINE=94253093; PubMed=8195165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
STRAIN=C3H; TISSUE=Skeletal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Name=Cfl2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cofilin, muscle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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166 j
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(Rel. 32, Last sequence up
(Rel. 45, Last annotation
(Scle isoform (Cofilin-2))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30
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18736 :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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2.7e+02;
       polymerization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ₹
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           predominantly
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RESULT
COFI_CH
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Best Local
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01-MAY-1991
28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DOMAIN
MOD RES
SEQUENCE
                                                                                                             SEQUENCE FROM N.A.

TISSUE-Skeletal muscle;

MEDLINE-91027755, PubMed=1699599;

Abe H., Endo T., Yamamoto K., Obinata T.;

"Sequence of cDNAs encoding actin depolymerizing factor and cofilin embryonic chicken skeletal muscle: two functionally distinct actin-regulatory proteins exhibit high structural homology.";

Biochemistry 29:7420-7425(1990).
                                                                                                                                                                                                                                                                                                                                                                                                            CHICK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a cobstween the Swiss Institute of Bioinformatics and the EWBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fo entities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
             cofilin.";
                                                                    STRUCTURE BY NMR, AND REVISIONS TO MEDLINE=21880669; PubMed=11885570;
                                                                                                                                                                                                                                                                                          Gallus gallus (Chicken).
Eukaryota; Metazoa; Chor
                                                                                                                                                                                                                                                                                                                                       05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                 COFI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Actin-binding; Cytoskeleton; Nuclear protein; Phosphorylation.

DOMAIN

30

34

Nuclear localization signal (Potential).

DOMAIN

106

125

Actin-binding (Potential).

MOD RES

24

Phosphoserine (By similarity).

SEQUENCE

166

AA; 18709 MW; 48B6D7E5AE9FEICC CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR002108; Actbind Pfam; PF00241; Cofilin ADF; PRINTS; PR00006; COFILIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; L29468; AAA37433.1; -.
EMBL; BC007138; AAH07138.1; -.
PIR; A53812; A53812.
                                         Bains N.P.S., Gork
Maciejewski M.W.,
                                                                                                                                                                                                                                                                Gallus.
                                                                                                                                                                                                                                                                            Archosauria;
                                                                                                                                                                                                                                                                                                                        Cofilin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PROSITE; PS00325; ACTIN_DEPOLYMERIZING;
                           "Backbone and side-chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ProDom;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MGD; MGI:101763; Cfl2.
 Biomol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        major component of intranuclear and cytoplasmic actin rods. SUBCELAULAR LOCATION: Intranuclear and cytoplasmic. TISSUE SPECIFICITY: Predominantly expressed in skeletal muscle. PTM: The phosphorylation of Ser-24 may prevent recognition of t nuclear localization signal.
SIMILARITY: Belongs to the actin-binding proteins ADF family.
                                                                                                                                                                                                                                             _TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 depolymerization bind G- and F-act
                                                                                                                                                                                                                                                                                                                                                                                                CHICK
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sm00102; ADF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 5; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VGDIGD
 NMR
                                                                                                                                                                                                                                                                                                                                   (Rel. 18, Created)
(Rel. 41, Last seq
(Rel. 44, Last ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                             Aves; Neognathae;
                           NMR, AND REVISIONS TO 53-54.

669; PubMed=11885570; DOI=10.1023/A:1014227808686;

Gorbatyuk V.Y., Nosworthy N.J., Robson S.A.,

W., dos Remedios C.G., King G.F.;

side-chain 1H, 15N, and 13C assignments for chick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1AK6
22:193-194 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         62
                                                                                                                                                                                                                                                                                        Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             96.9%;
                                                                                                                                                                                                                                                                                                                                      sequence up
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 31; DB
Pred. No. 2.7e
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cofln.
                                                                                                                                                                                                                                                                             Craniata; Vertebrata; Euteleostomi; 
; Galliformes; Phasianidae; Phasiani
                                                                                                                                                                                                                                                                                                                                                   update.
                                                                                                                                                                                                                                                                                                                                                                                                166
                                                                                                                                                                                                                                                                                                                                    update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       noved. Usage by and for commercial (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; 1
2.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                 A
                      G.F.; assignments for chick
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 166
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Matches 5
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           Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Brownstein M.J., Wedernan R.J., Maramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOD RES
SEQUENCE
                                                                                                                                                                                                                                                                Brachydanio rerio (Zebrafish)
Eukaryota; Metazoa; Chordata;
Actinopterygii; Neopterygii; T
Cyprinidae; Danio.
                                                                                                                                                                                         TISSUE=Embryo;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                     Name=cfl2;
                                                                                                                                                                                                                                                                                                                                                  05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
Cofilin 2 (Muscle).
                                                                                                                                                                                                                                                                                                                                                                                                 05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                 Q6NZW3;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Q6NZW3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Actin-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR00006; COFILIN. ProDom; PD002129; Actbind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR002108; Actbind_cofln.
Pfam; PF00241; Cofilin_ADF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; M55659; AAA62732.1; -. HSSP; P18282; 1AK6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                      EQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nuclear localization signal.
SIMILARITY: Belongs to the actin-binding proteins ADF family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           depolymerization in a pH-sensitive manner. It has the ability bind G- and F-actin in a 1:1 ratio of cofilin to actin. It major component of intranuclear and cytoplasmic actin rods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PTM: The phosphorylation of Ser-24 may
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             completely in nucleus in cells dimethyl sulfoxide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBCELLULAR LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: Controls reversibly actin polymerization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SM00102; ADF; 1.
SM00102; ACTIN_DEPOLYMERIZING; 1.
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5; Conserv
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   Helton E.,
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24
166 /
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SPECIFICITY: Widely distributed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
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125
24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18661 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96.9%;
83.3%;
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27,
27,
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                    Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Nuclear protein; Phosphorylation.
Nuclear localization signal (Potential).
Actin-binding (Potential).
Phosphoserine (By similarity).
; 514685E940786EF0 CRC64;
                                                                                                                                                                                                                                                                                    ) (Danio rerio).; Craniata; Vertebrata; Euteleostomi; Teleostei; Ostariophysi; Cypriniformes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                   166
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2.7e+02;
0;
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to heat shock or 10%
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RESULT 17
Q853Z5
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Best Local S
Matches 5
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Best Local
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GO; GO:0005622; C:intracellular; IE
GO; GO:0003779; F:actin binding; IE
InterPro; IPR002108; Actbind cofln.
Pfam; PF00241; Coffilin ADP; I.
PRINTS; PR00006; COPILIN.
PRODOM; PD002129; Actbind cofln; 1.
SMART; SM00102; ADP; 1.
SMART; SM00102; ACTIN DEPOLYMERIZ
PROSITE; PS00325; ACTIN DEPOLYMERIZ
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01-JUN-2003
01-JUN-2003
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                                                                                                                                                                                                                                                                           MEDIINE=22592660; PubMed=12705866; DOI=10.1016/S0092-8674(03)00233-2; Pedulla M.L., Ford M.E., Houtz J.M., Karthikeyan T., Wadsworth C., Lewis J.A., Jacobs-Sera D., Falbo J., Gross J., Pannunzio N.R., Brucker W., Kumar V., Kandasamy J., Keenan L., Bardarov S., Kriakov J., Lawrence J.G., Jacobs W.R. Jr., Hendrix R.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; BC065947; AAH65947.1;
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Director MGC Project;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jones S.J., Marra M.A.;
                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=205879;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Viruses; dsDNA viruses,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=171;
Mycobacteriophage Omega.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (FEB-2004)
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                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                           EMBL;
                                                                                                                                                                                                                                                           Kriakov J., Lawrence J.G.,
Hatfull G.F.;
                                                                                                                                                                                      "Origins of highly mosaic mycobacteriophage Cell 113:171-182(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P60982;
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94
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                                                                               Similarity 5; Conser
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PS00325; ACTIN DEPOLYMERIZING; 1.
PS00325; ACTIN DEPOLYMERIZING; 1.
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                             IGDIGD
IGDVGD
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                                                                               Conservative
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                                                                                                      96.9%;
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                                                                                                                                                             , WW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               RNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Created)
Last sequence update)
Last annotation updat
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Smailus D.E., Schnerch A.,
                                                                                                      Score
Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             stage;
                                                                                                                                                                         C7396B1AA20F0460 CRC64;
                                                                                    Mismatches
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                                                                                                                         31;
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                                                                                                                             Length 180;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Siphoviridae
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RESULT 18 Q9US43 ID Q9US4 AC Q9US4

Q9US43 Q9US43;

PRELIMINARY;

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Q84BH1
ID Q
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DT Q
DT 0
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RT With genome sequence of Schizosaccharomyces pombe.";
RD REMBL, AL136078; CABS5617.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local (
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Q84BH1;
Q1-JUN-2003
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01-MAY-2000
01-MAR-2004
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01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Uracil phosphoribosyltransferase activity (Predicted); similar to cerevisiae YHR128M.
                                                         01-JUN-2003 (TrEMBLrel. 24, 01-OCT-2003 (TrEMBLrel. 25, Vls recombination cassette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HSSP; Q26998; IJLS.

GeneDB SPombe; SPAC102.17c; -.

GO; GO:0016757; F:transferase activity, transferring glycosyl..

GO; GO:0093116; P:nucleoside metabolism; IEA.

InterPro; IPR000508; Peptidase S26.

InterPro; IPR000336; PRtransferase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Wood V., Gwilliam R., Rajandream M.A., Lyne M., Lyne R., 9 Sgouros J., Peat N., Hayles J., Baker S., Basham D., Bowm Brooks K., Brown D., Brown S., Chillingworth T., Churcher
                       Borrelia afzelii.
Plasmid lp28-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF00156; Pribosyltran; 1.

PROSITE; PS00501; SPASE I I; UNKNOWN 1.

Glycosyltransferase; Transferase.

SEQUENCE 189 AA; 20476 MW; A3930220404EC933 CRC64;
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Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wood V.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=21848401;    PubMed=11859360;    DOI=10.1038/nature724;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schizosaccharomyces.
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                                                                                                                                                                                                                                                                                                         VCDICD
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Spirochaetes; Spirochaetales; Spirochaetaceae; Borrelia.
                                                                (TrEMBLrel. 24, Last sequence update) (TrEMBLrel. 25, Last annotation update) nation cassette V1s13 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                      PRELIMINARY;
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Pred. No. 3.1e+02;
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Basham D., Bowman
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Best Local
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01-MAY-1999
01-MAY-1999
01-OCT-2003
                       019062;
019062;
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  01-JAN-1998
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                                                                                           21
                                                                                                                                                                173
                                                                                                                                                                                                                                                                                                                                                                            protein
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  (TrEMBLrel. 05,
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Best Local Similarity
Matches 5; Conserv
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MO1. Microbiol. 47:1407-1417(2003).

EMBL; AY100628; AAN87821.1; -.

HSSP; O68364; 118W.
                                                                                                                                                                                                                                                     InterPro; IPR000247; Cucumovirus_coat.
Pfam; PF00760; Cucumo_coat; 1.
PRINTS; PR00222; CUCUMOCOAT.
PRODOM; PD001284; Cucumovirus_coat; 1.
                                                                                                                                                                                                                                                                                                                              GO; GO:0019028; C:viral capsid; IEA.
GO; GO:0005198; F:structural molecule activity; IEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=western;
MEDLINE=97275907; PubMed=9129668;
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Peanut stunt virus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=22493136; PubMed=12603744; Wang D., Botkin D.J., Norris S.J.;
                                                                                                                                                                                                                                                                                                                                                              J. Gen. Virol. 78:929-939(1997).
EMBL; U31366; AAC99857.1; -.
                                                                                                                                                                                                                                                                                                                                                                                              cucumovirus strains: molecular characterization
                                                                                                                                                                                                                                                                                                                                                                                                Hu C.-C., Aboul-Ata A.E., Naidu R.A., Ghabrial S.A.; "Byidence for the occurrence of two distinct subgroups of peanut stunt cucumovirus strains: molecular characterization of RNA3.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Viruses; ssRNA positive-strand viruses, no DNA stage; Bromoviridae;
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                                                                                                       1 IGDIGD
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5; Conserv
                                                                                  VGDIGD
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201 AA;
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PRELIMINARY;
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19522 MW;
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Pred. No. 3.3e+02;
1; Mismatches 0

    Mismatches

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Last annotation update)
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                                                                                                                                                                        Score 31;
Pred. No.
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PRT;
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222
                                                                                                                                                                        3.6e+02;
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Rubio N., Sharp P.M., Rits M., Zahedi K., Whitehead A.S.;

"Structure, expression, and evolution of guinea pig serum amylo
component and C-reactive protein.";

J. Biochem. 113:277-284(1993).

C-!- FUNCTION: Displays several functions associated with host of
the promotes agglutination, bacterial capsular swelling,
phagocytosi and complement fixation through its calcium-der
phagocytosi and complement fixation through its calcium-der
binding to phosphorylcholine. Can interact with DNA and his
cond may scavenge nuclear material released from damaged
circulating cells (By similarity).

-!- SUBUNIT: Homopentamer. Pentaxin (or pentraxin) have a disco
arrangement of 5 noncovalently bound subunits (By similarity
-!- SUBCELLULAR LOCATION: Secreted.

-!- TISSUE SPECIFICITY: Found in plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAVPO
CRP CAVPO
P49254;
01-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases. EMBL, AB005545; BAAD13779.1; -.
EMBL; AV714055; AAD13779.1; -.
HSSP; P07741; 1LJ7.
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
"ratical resistance; TISSUE=Liver;
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Sus scrofa (Pig).
Eukaryota, Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CHAIN
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          C-reactive protein precursor.

Name=CRP; Synonyms=PRX1;

Cavia porcellus (Guinea pig).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Hystricognathi; Caviidae; Cavia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Detection of SNPs and
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                                                                                                                                                                                                                                                                                                                                                                    STRAIN=Hartley;
                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS; PR00895; PENTAXIN.
ProDom; PD002153; Pentaxin; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR008965; ConA_like_lec_gl.
InterPro; IPR001759; Pentaxin.
Pfam; PF00354; Pentaxin; 1.
                                                                                                                                                                                                                                                                                                                                         MEDLINE=93252746; PubMed=8486600;
                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=10141;
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20
222
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linkage and radiation hybrid mapping
tein gene, CRP.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ikawa M., Hanazono
EMBL/GenBank/DDBJ
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Pred. No. 3.7e
1; Mismatches
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CRP mature peptide.
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RESULT 23
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01-FEB-1996 (Rel.
05-JUL-2004 (Rel.
                                                                                                                                                                                                                                                                                                                                                          MEDLINE=91369977; PubMed=1892852;
Dowton S.B., Holden S.N.;
"C-reactive protein (CRP) of the Syrian hamster.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=10036;
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Mesocricetus auratus (Gc
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HSSP; P02741; 1809.
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DATABASE: NAME=Protein Spotlight; NOTE=Issue 30 of January 2003;
WWW-"http://www.expasy.org/spotlight/articles/sptlt030.html".
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Pred. No. 3.7e+02;
1; Mismatches 0
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C-reactive protein
Pentaxin.
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RESULT 24
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SETRAIN=CDAJ/J; TISSUE=Liver;

XX MIDLINE=90179719; PubMed=2310378;

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InterPro; IPR001759; Pentaxin.
Pfam; PF00354; Pentaxin; 1.
PRINTS; PR00895; PENTAXIN.
ProDom; PD002153; Pentaxin; 1.
SMART; SM00159; PTX; 1.
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P14847;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-APR-1990 (Rel. 14, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) C-reactive protein precursor.
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HSSP; P02741; 1LJ7.
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                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=89050112; PubMed=3190681;
Ohnishi S., Maeda S., Nishiguchi S.,
"Structure of the mouse C-reactive pr
Biochem. Biophys. Res. Commun. 156:81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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By similarity.
; 00B439C45D58E05A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 31;
Pred. No.
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C-reactive protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                            hi S., Arao T., Shimada
tive protein gene.";
156:814-822(1988).
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      tissue
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n plasma
injury,
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    increases infection
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    greatly
or other
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RESULT 25
Q91XB3
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RX MEDLINE-2238527; Pubmede-12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wapper L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F. Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Robas S.A., WeEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahby J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local
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SMART; S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outsit the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for conmodified and this statement is not removed. Usage by and for conmodified and this statement is not removed.
                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
STRAIN=FVB/N; TISSUE=Liver;
                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                  Name=Crp;
                                                                                                                                                                                                                                                                                                                                                                                                  01-DEC-2001 (TrEMBLrel. 19, 01-DEC-2001 (TrEMBLrel. 19, 01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q91XB3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q91XB3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS; PR00895; PENTAXIN. ProDom; PD002153; Pentaxin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MGD; MGI:88512; Crp.
InterPro; IPR008985; ConA like
InterPro; IPR001759; Pentaxin.
Pfam; PF00354; Pentaxin; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; X13588; CAA31928.1; -.
EMBL; X17496; CAA35531.1; -.
PIR; A31583; A31583.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                              NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                      Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                   C-reactive protein,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Acute phase; Calcium; Pentaxin; Plasma; Signal
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MGD; MGI:88512; Crp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00289; PENTAXIN; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammatory stimuly.
SIMILARITY: Belongs to the pentaxin family.
DATABASE: NAME=Protein Spotlight; NOTE=Issue 30 of January 2003;
WWW="http://www.expasy.org/spotlight/articles/sptlt030.html".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  172 VGDIGD
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5; Conserv
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134
225 AA;
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                                                                                                                                                                                                                                                                                                                    ; Chordata; Rodentia;
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225
116
134
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Last annotation updat
related.
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Pred. No. 3.7e
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -> P (in Ref. 2).
155E6785E46043D9
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Best Local :
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GO; GO:0005615; C:extracellular space; TA
Pfam; PF00354; Pentaxin; 1.
PRINTS; PR00895; PENTAXIN.
ProDom; PD002153; Pentaxin; 1.
SMART; SM00159; PTX; 1.
PROSITE; PS00289; PENTAXIN; 1.
SEQUENCE 225 AA; 25387 MW; 0E5FD795E5
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P48199;
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01-FEB-1996 (Rel. 33, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
C-reactive protein precursor.
Name=Crp; Synonyms=Ptx1;
                                                                                                                                                it promotes agglutination, bacterial capsular swelling, phagocycosi and complement fixation through its calcium-dependent binding to phosphorylcholine. Can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells (By similarity).

SUBUNIT: Homopentamer. Pentaxin (or pentraxin) have a discoid arrangement of 5 noncovalently bound subunits. Two of the five chains form a dimer linked by two interchain disulfide bonds located in the C-terminal heptapeptide and specific to rat CRP.

I SUBCELIULIAR LOCATION: Secreted.

I TISSUE SPECIFICITY: Found in plasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cDNA cloning with additional studies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rassouli M., Sambasivam H., Azadi P., Dell A., Morris H.R., Nagpurkar A., Mookerjea S., Murray R.K.; "Derivation of the amino acid sequence of rat C-reactive protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN=Sprague-Dawley; TISSUE=Liver; MEDLINE=92147634; PubMed=1737750;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; BC011124; AAH11124.1; HSSP; P02741; 1LJ7.
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STRAIN=FVB/N; TISSUE=Liver;
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Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               component.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mouse
                                                                            disulfide bonds or in an intrachain bond.
SIMILARITY: Belongs to the pentaxin family.
DATABASE: NAME=Protein Spotlight; NOTE=Issue 30 of January 2003;
                                                   WWW-"http://www.expasy.org/spotlight/articles/sptlt030.html".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      172 VGDIGD 177
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L. Acad. Sci. U.S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (JUL-2001) to the
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  entry
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     18
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  copyright.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 31; I
Pred. No. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99:16899-16903 (2002)
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     It is
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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SMART; SM00159; PTX; 1.
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GlycoSuiteDB; P48199;
                                                                                  EMBL; AB088420; BAC41609.1; -. Hypothetical protein; Plasmid. SEQUENCE 247 AA; 28348 MW;
                                                                                                                  MEDLINE=22435905; PubMed=12547188; DOI=10.1016/S0022-2836(02)01400-6; Maeda K., Nojiri H., Shintani M., Yoshida T., Habe H., Omori T.; "Complete nucleotide sequence of carbazole/dioxin-degrading plasmid pCAR1 in Pseudomonas resinovorans strain CA10 indicates its mosaicity and the presence of large catabolic transposon Tn4676."; J. Mol. Biol. 326:21-33(2003).
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Acute phase; Calcium; Direct
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                                                                                                                                                                                                       Pseudomonadaceae; Pseudomonas.
NCBI_TaxID=53412;
                                                                                                                                                                                                                                                     Pseudomonas resinovorans.
                                                                                                                                                                                                                                                                 Hypothetical Name=ORF89;
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InterPro; IPR001759; Pentaxin.
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C-reactive protein.
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InterPro; IPR002347; Adh_short_C2.
Pfam; PF00106; adh short; 1.
PRINTS; PR00081; GDHRDH.
PRINTS; PR00080; SDRFAMILY.
PROSITE; PS00061; ADH_SHORT; 1.
Oxidoreductase.
Hardenack S., De Y., Koutnikova I
Submitted (APR-1996) to the EMBL,
-I- SIMILARITY: Belongs to the Bi
(SDR) family.
EMBL; U53828; AAB42054.1; -.
HSSP; P25716; 1Q7B.
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01-NOV-1996
01-MAR-2004
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Q84176;
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Q84176;
Q94176;
Q1-JUN-2003 (TrEMBLrel. 24, Created)
Q1-JUN-2003 (TrEMBLrel. 24, Last sequence update)
Q1-JUN-2004 (TrEMBLrel. 26, Last annotation update)
Q1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Putative short-chain dehydrogenase.
Alcaligenes eutrophus (Ralstonia eutropha).
Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
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Q41345;
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Silene pratensis (White campion) (Lychnis alba).
Silene pratensis (White campion) (Lychnis alba).
Bukaryota; Viridiplantae; Streptophyta; Embryoph;
Spermatophyta; Magnoliophyta; eudicotyledons; co:
Caryophyllales; Caryophyllaceae; Silene.
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-!- SIMILARITY: Belongs to the short-chain dehydrogenases/reductases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AF373287; AAO:
HSSP; P97852; 1GZ6.
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                                                                                                                                                         Koutnikova H., Saedler H., Grant S to the EMBL/GenBank/DDBJ databases
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Pred. No. 4.2e+02;
1; Mismatches 0
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                                                                                                                     short-chain
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lase gene f
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                                                                                                                                                                                                                                                                                                                                                                                                                        Embryophyta; Tracheophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                 dehydrogenases/reductases
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                                                                                                                                                                                            Grant S.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        z.;
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RESULT 31

CCD5_CAREL

ID CCD5_CAREL

AC P91285;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence upda
DT 25-OCT-20104 (Rel. 45, Last amnotation upda
DE Cuticle collagen dpy-5 (Dumpy protein 5)
GN Name=dpy-5; ORFNames=F27C1.8;
OS Caenorhabditis elegans.
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Best Local S
Matches 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
05-UUL-2004 (TrEMBLrel. 27, Last annotation update)
STA1-18 (STA1-2).
Name=STA1-18; Synonyms=STA1-2;
Silene pratensis (White campion) (Lychnis alba).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Caryophyllales; Caryophyllaceae; Silene.
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InterPro; IPR002198; ADH short.
InterPro; IPR002347; Adh short_C2.
Pfam; PF00106; adh short; 1.
PRINTS; PR00081; GDHRDH.
PRINTS; PR00080; SDRPAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
Hardenack S., De Y., Kou
Submitted (APR-1996) to
-i- SIMILARITY: Belongs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Oxidoreductase.
SEQUENCE 281 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; U53829; AAB42055.1; -.
EMBL; U53827; AAB42053.1; -.
HSSP; P25716; 107B.
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01-NOV-1996
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SEQUENCE 281 AA;
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5; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                            96.9%;
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Last sequence up
Last annotation
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                       Score 31; DB 2;
Pred. No. 4.7e+02
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0A54D7D88FCF9CA4 CRC64;
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DT 01-W
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Best Local
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Q8DGV6;
01-MAR-2003
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STRAIN=Bristol N2;
MEDLINE=99069613; PubMed=9851916;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=6239;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR008161; Clg_helix.
InterPro; IPR002486; Col_cuticle_N.
InterPro; IPR002486; ColTagen.
InterPro; IPR008160; ColTagen.
Pfam; PF01484; Col cuticle_N; 1.
Pfam; PF01391; ColTagen; 2.
ProDom; PD000007; Clg_helix; 2.
ProDom; PD000007; Clg_helix; 2.
Collagen; Cuticle; Multigene family; Repeat; Structural protein.
DOMAIN
143
270
Triple-helical region.
DOMAIN
143
270
Triple-helical region.
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Rhabditidae; Peloderinae; Caenorhabditis.
                                                                             Synechococcus elongatus (Thermosynechococcus elongatus).
Bacteria; Cyanobacteria; Chroococcales; Synechococcus
                                                                                                            UDP-glucose 4-epimerase.
OrderedLocusNames=tlr2206;
                                                                                                                                           01-MAR-2003 (TrEMBLrel.
01-MAR-2003 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; U80441; AAB37656.1; -. PIR; T29528; T29528.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "dpy-5 encodes a cuticle collagen.";

(er) Worm Breeder's Gazette 15(1):54(1997).

-I- FUNCTION: Nematode cuticles are composed largely of collagen-like proteins. The cuticle functions both as an exoskeleton and as a barrier to protect the worm from its environment.

-I- SUBUNIT: Collagen polypeptide chains are complexed within the cuticle by disulfide bonds and other types of covalent cross-links.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thacker C.M., Rose A.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The C. elegans sequencing consortium; "Genome sequence of the nematode C. e investigating biology."; science 282:2012-2018(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WormBase; WBGene00001067; dpy-5.
WormPep; F27C1.8; CE09720.
MEDLINE=22225144; PubMed=12240834;
                  SEQUENCE FROM N.A.
STRAIN=BP-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [DENTIFICATION.
                                                            NCBI_TaxID=32046;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PTM: May be a substrate of bli-4.
SIMILARITY: Belongs to the cuticular collagen family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               By similarity).
                                                                                                                                                                                                                                                                                         178
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                                                                                                                                                                                                                                                                                                                                                     Similarity
5; Conserv
                                                                                                                                                                                                                                                                                           VGDIGD
                                                                                                                                                                                                                                                                                                                       ignign 6
                                                                                                                                                                                                                                                                                                                                                                                                                     284 AA;
                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                            PRELIMINARY;
                                                                                                                                                                                                                                                                                         183
                                                                                                                                                                                                                                                                                                                                                                                                                       28216 MW;
                                                                                                                                                                                                                                                                                                                                                                      96.9%;
                                                                                                                                         23,
25,
                                                                                                                                            Last sequence update)
Last annotation updat
                                                                                                                                                                            Created)
                                                                                                                                                                                                                                                                                                                                                                      Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                        8EED98AED554B454 CRC64;
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                                                                                                                                                                                                              308
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                                                                                                                                            update)
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Matches 5; Conserv
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Q67KV0;
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GO; GO:0003978; F:UDP-glucose 4-epimerase activity; IEA.
GO; GO:0006012; P:galactose metabolism; IEA.
GO; GO:0009225; P:nucleotide-sugar metabolism; IEA.
InterPro; IPR001509; Epimerase_Dh.
InterPro; IPR001509; Epimerase_Dh.
FINEN; FF01370; Epimerase; 1.
TIGRFAMG; TIGR01179; galE; 1.
Complete proteome; NAD.
Complete proteome; NAD.
Complete proteome; NAD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Symbiobacterium thermophilum.
Bacteria; Actinobacteria; Sym
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. STRAIN=IAM14863;
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-!- SIMILARITY: Belongs to the sugar epimerase family.
                                                                                                                                                                                                                                                                                          SEQUENCE
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EMBL; AP006840; BAD41696.1; -.
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InterPro; IPR005886; GalB.
Pfam; PP01370; Epimerase; 1.
TIGRFAMs; TIGR01179; galE; 1.
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Hattori M., Beppu T.;
nce of an uncultured bacterium Symbiobacterium
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MEDLINB=2196410; PubMed=12000953; DOI=10.1038/417141a;

Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,

Bentley S.D., Chater K.F., Harris D.E., Quail M.A., Kieser H.,

Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,

Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,

Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,

Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil S.,

Rabbinowitsch B., Rajandream M.A., Rutherford K.M., Rutter S.,

Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,

Marren T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
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Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;

Bacteria; Actinobacteria; Streptomyces.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Complete genome sequence and comparative analysis of the industrial microorganism Streptomyces avermitilis.";
Nat. Biotechnol. 21:526-531(2003).
EMBL; AP005036; BAC71596.1; ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=22608306; PubMed=12692562; Ikeda H., Ishikawa J., Hanamoto A., Sakaki Y., Hattori M., Omura S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-21477403; PubMed=11572948; DOI=10.1073/pnas.211433198; Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C., Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osonoe T., Kikuchi H., Shiba T., Sakaki Y., Hattori M.; "Genome sequence of an industrial microorganism Streptomyces avermitilis: deducing the ability of producing secondary
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01-UN-2003 (TrEMBLrel. 24, Last annotation update)
Putative integral membrane protein.
OrderedLocusNames=SAV3884;
                          "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";
Nature 417:141-147(2002).
EMBL; AL939119; CAC08313.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
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regral membrane protein.
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01-MAY-2000
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MEDLINB=20036896; PubMed=10567266; DOI=10.1126; Science.286.5444.1571;
White O., Eisen J.A., Heidelberg J.F., Hickey E.K., Peterson J.D.,
Dodson R.J., Haft D.H., Gwinn M.L., Nelson W.C., Richardson D.L.,
Moffat K.S., Qin H., Jiang L., Pamphile W., Crosby M., Shen M.,
Vamathevan J.J., Lam P., McDonald L.A., Utterback T.R., Zalewski C.,
Makarova K.S., Aravind L., Daly M.J., Minton K.W., Fleischmann R.D.,
Ketchum K.A., Nelson K.E., Salzberg S.L., Smith H.O., Venter J.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GO; GO:0008152; P:metabolism; IEA.
GO; GO:0009225; P:nucleotide-sugar metabolism;
InterPro; IPR002347; Adh. short C2.
InterPro; IPR005888; dTDP gluc dehyt.
InterPro; IPR001509; Epimerase_Dh.
Pfam; PF01370; Epimerase; 1.
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                                                                     Q7XTS7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Science 286:1571-1577(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Genome sequence of the radioresistant bacterium Deinococcus radiodurans {\bf R1}.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria; Deinococcus-Thermus;
Deinococcaceae; Deinococcus.
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                                                                                        Q7XTS7
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Q98KR2;
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Han B.;
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Liu Y., Hu X., Jia P., Zhang Y., Zhao Q., Ying K., Yu S., Tang Y.,
Weng Q., Zhang L., Lu Y., Mu J., Lu Y., Zhang L.S., Yu Z., Fan DY.,
Liu X., Lu T., Li C., Wu Y., Sun T., Lei H., Li T., Hu H., Guan J.,
Wu M., Zhang R., Zhou B., Chen Z., Chen L., Jin Z., Wang R., Yin H.,
Cai Z., Ren S., Lv G., Gu W., Zhu G., Tu Y., Jia J., Zhang Y.,
Chen J., Xang H., Chen X., Shao C., Sun Y., Hu Q., Zhang X., Zhang W.
Wang L., Ding C., Sheng H., Gu J., Chen S., Ni L., Zhu F., Chen W.,
Lan L., Lai Y., Cheng Z., Gu M., Jiang J., Li J., Hong G., Xue Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
similarity)

-i- CATALYTIC ACTIVITY: NADH + quinone = NAD(+) +
-i- SIMILARITY: Belongs to the complex I 75 kDa su
EMBL; AP002997; BAB48752.1; -
GO; GO:0005489; F:electron transporter activity; I
GO; GO:0005506; F:iron ion binding; IEA.
GO; GO:0008137; F:NADH dehydrogenase (ubiquinone)
GO; GO:0016651; F:oxidoreductase activity, acting
                                                                                                                                                                              MEDLINE=21082930; PubMed=11214968;
Kaneko T., Nakamura Y., Sato S., Asamizu B., Kato T., Sasa Watanabe A., Idesawa K., Ishikawa A., Kawashina K., Kimura Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsuno Mochizuki Y., Nakayama S., Nakazaki N., Shimpo S., Sugimot Takeuchi C., Yamada M., Tabata S.;
"Complete genome structure of the nitrogen-fixing symbioti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=39947;
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Name=OSJNBa0008M17.
                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation updat
NADH-ubiquinone dehydrogenase chain 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001878; Znf CCHC.
SMART; SM00343; Znf C2HC; 1.
SEQUENCE 588 AA; 64054 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Sequence and analysis of rice chromosome 4."; Nature 420:316-320(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A
                                                                                                                                         -i-
                                                                                                                                                                    Mesorhizobium loti.";
                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. STRAIN=MAFF303099;
                                                                                                                                                                                                                                                                                                                                                      Rhizobium loti (Mesorhizobium loti).
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Phyllobacteriaceae; Mesorhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                     OrderedLocusNames=mll1362;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PubMed=12447439;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            38
                                                                                                                                        Res. 7:331-338(2000).
FUNCTION: NDH-1 shuttles
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO:0003676; F:nucleic acid binding;
                                                                                                                           sulfur (Fe-S) centers,
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Pred. No.
                                                                                                                                           electrons
                                                                                                                           quinones
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le+03;
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                                                                                                                                           NADH,
                                                                                                                           ADH, via FMN
respiratory
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                                                                                subunit
                                                                                                                                                                                                                                    K., Kimura
                                                    IEA
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      activity; 1 on NADH or
                                                                                               quinol
                                                                                                                                                                                    symbiotic bacterium
                                                                                                                                                                                                                  Sugimoto M.,
                                                                                                                                                                                                                                                                Sasamoto
                                                                                family
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v chain (By
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                    IEA.
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       IEA.
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RESULT 39
GYRB_RICCN
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Best Local
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InterPro; IPR001041; Ferredoxin.
InterPro; IPR001656; Molybdopterin.
InterPro; IPR010228; NuoG.
InterPro; IPR010228; NuoG.
Pfam; PP00111; Fer2; 1.
Pfam; PP00384; Molybdopterin; 1.
TIGRPAMB; TIGR01973; NuoG; 1.
PROSITE; PS00642; COMPLEX1 75K 3; 1.
PROSITE; PS00643; COMPLEX1 75K 3; 1.
PROSITE; PS00643; COMPLEX1 75K 3; 1.
PROSITE; PS00643; Complete proteome; Iron; Iron-sulfur; Metal-binding; 2Fe-2S; 4Fe-4S; Complete proteome; Iron; Iron-sulfur; Metal-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GYRB_RICCN
Q92H87;
                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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NAD; Oxidoreductase; Quinone; Ubiquinone.
NAD; Oxidoreductase; Quinone; GCC39A61B38A7631 CRC64;
                                                                                                              EMBL; AE008642; AAL03422.1; PIR; D97810; D97810. HSSP; P06982; 1AJ6. Interpro; IPR003594; ATPbind
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Science 293:2093-2098(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=21442074; PubMed=11557893; DOI=10.1126/science.1061471; Ogata H., Audic S., Renesto-Audiffren P., Fournier P.-E., Barbe Sammon D., Roux V., Cossart P., Weissenbach J., Claverie J.-M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria; Proteobacteria; Alphaproteobacteria;
Rickettsiaceae; Rickettsieae; Rickettsia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rickettsia conorii.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA gyrase subunit B (EC 5.99.1.3).
Name=gyrB; OrderedLocusNames=RC0884;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-FEB-2003 (Rel.
28-FEB-2003 (Rel.
05-JUL-2004 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Raoult D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mechanisms of evolution in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO:0006118; P:electron transport; IEA. GO:0006120; P:mitochondrial electron t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA rings, including catenanes and knotted rings. CATALYTIC ACTIVITY: ATP-dependent breakage, passa of double-stranded DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIMILARITY: Belongs to the type II topoisomerase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         breakage and rejoining; the B chain enzyme forms an A2B2 tetramer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SUBUNIT: Made up of two chains. The A chain is breakage and rejoining; the B chain catalyzes A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FUNCTION: DNA gyrase negatively supercoils closed circular double-
stranded DNA in an ATP-dependent manner and also catalyzes the
interconversion of other topological isomers of double-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                _TaxID=781;
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00283; Complex1 75K.
01041; Ferredoxin.
06656; Molybdopterin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41, Last sequence update)
44, Last annotation updat
t B (EC 5.99.1.3).
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1; Mismatches
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ATP hydrolysis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and rejoining
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InterPro;

interPro; nterPro;

IPR000565; IPR001241; IPR006171; IPR002288;

; ATPbind_ATPase.; DNA_gyraseB_C.; DNA_gyrB.; DNA_topoisoII.; Toprim_dom.

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GYRB RASULT CAO
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ID GYRB R
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DT 30-MAY
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Best Local
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Pfam; PF00986; DNA_gyraseB_C; 1.
Pfam; PF02518; HATPase C; 1.
Pfam; PF01751; Toprim; 1.
PfNTS; PR00418; TP12FAMILY.
PRINTS; PR00418; TP12FAMILY.
PRODOm; PD149633; DNA_gyrase_B; 1
SMART; SM00387; HATPase_C; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9ZCX2;
30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence up
30-MAY-2004 (Rel. 44, Last annotation
DNA gyrase subunit B (EC 5.99.1.3).
Name=gyrB; OrderedLocusNames=RP580;
Rickettsia prowazekii.
                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBI outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE-99039499; PubMed-9823893; DOI-10.1038/24094; Andersson S.G.E., Zomorodipour A., Andersson J.O., Sicheritz-Ponten T., Alsmark U.C.M., Podowski R.M., Naeslund Eriksson A.-S., Winkler H.H., Kurland C.G.; "The genome sequence of Rickettsia prowazekii and the origin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TIGRPAMS; TIGRO1059; GYTB; 1.
PROSITE; PS00177; TOPOISOMERASE II; 1.
ATP-binding; Complete protecome; Isomerase; Topoisomerase.
SEQUENCE 807 AA; 90794 MW; 12814B49F12132F9 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00387; HATPASE
SMART; SM00433; TOP2C; J
InterPro; 1FAV
Pfam; PF00204;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nature 396:133-140(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mitochondria."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. STRAIN-Madrid E;
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Rickettsiaceae; Rickettsieae; Rickettsia.
                                                                                                                     InterPro;
                                                                                                                                                   InterPro;
                                                                                              InterPro;
                                                                nterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: DNA gyrase negatively supercoils closed circular double-stranded DNA in an ATP-dependent manner and also catalyzes the interconversion of other topological isomers of double-stranded DNA rings, including catenanes and knotted rings.

CATALYTIC ACTIVITY: ATP-dependent breakage, passage and rejoining of double-stranded DNA.

SUBUNIT: Made up of two chains. The A chain is responsible for DNA breakage and rejoining; the B chain catalyzes ATP hydrolysis. The enzyme forms an A2B2 tetramer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SIMILARITY: Belongs to the type II topoisomerase family
                                                                                                                                                                             ,; AJ235272; CAA1
A71663; A71663.
; P06982; 1AJ6.
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                                                                                                                                                                                                                                                                                       s requires a license agreement (Some an email to license@isb-sib.ch).
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                                IPR003594;
IPR002288;
IPR000565;
IPR001241;
IPR006171;
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                                                       ; ATPbind ATPase.
; DNA_gyraseB_C.
; DNA_gyrB.
; DNA_topoisoII.
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Pred. No. 1.4e+03;
1; Mismatches
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                       Query Match
Best Local Similarity
                                                                                                      InterPro; IPR003594; ATPbind_ATPase.
InterPro; IPR002288; DNA_gyraseB_C.
InterPro; IPR011558; DNA_gyraseB_C.
InterPro; IPR011557; GyrB.
InterPro; IPR001241; DNA_topoisoII.
InterPro; IPR00157; GyrB.
InterPro; IPR0016171; TOprim_dom.
Pfam; PF00204; DNA_gyraseB; 1.
Pfam; PF00204; DNA_gyraseB_C; 1.
Pfam; PF00218; HATPase_C; I.
Pfam; PF01518; HATPase_C; I.
PRINTS; PR00418; TD12FAMILY.
PRINTS; PR00418; TD12FAMILY.
PROSITE; PS00177; TOPOISOMERASE_II; 1.
PROSITE; PS00177; TOPOISOMERASE_II; 1.
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Pfam; PP02518; HATPase c; 1.
Pfam; PP01751; Toprim; 1.
PRINTS; PR0418; TP1ZPAMILY.
PRINTS; PR049633; DNA gyrase B
SMART; SM00387; HATPase C; 1.
SMART; SM00433; TOP2c; 1.
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Q7P921;
01-MAR-2004
01-MAR-2004
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PROSITE; PS00177; TOPOISOMERASE II;

ATP-binding; Complete proteome; Ison
SEQUENCE 807 AA; 90823 MW; 5DED5
                                                                  ATP-binding; Isomerase; Topoisomerase; SEQUENCE 807 AA; 90651 MW; 53FED1/
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NCBI_TaxID=35793;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria; Proteobacteria; Alphaproteobacteria; Rickettsiales; Rickettsiaceae; Rickettsieae; Rickettsia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Name=rsib_orf.1216;
Rickettsia sibirica.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   P; P06982; 1AJ6.
GO:0005524; F:ATP binding; IEA.
GO:0003918; F:DNA topoisomerase (ATP-P)
GO:0006304; P:DNA modification; IEA.
GO:0006265; P:DNA topological change;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of double-stranded DNA.
SIMILARITY: Belongs to the type II topoisomerase family.
CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   preliminary data.; AABW01000001; EAA26372.1;
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35 IGDVGD
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96.9%;
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Last annotation update)
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1; Mismatches
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Score
Pred.
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                                                                       53FED1A519AF358A CRC64;
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  1.4e+03;
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                       DB 2;
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RESULT 43
Q7TMA9
ID Q7TM/
AC Q7TM/
                                                                                                                                                                                                                                                                                           RL J. Bacteriol. 186:5842-5855 (2004).

RL J. Bacteriol. 186:5842-5855 (2004).

CC -!- FUNCTION: DNA gyrase negatively supercoils closed circular double-
cc stranded DNA in an ATP-dependent manner and also catalyzes the
cc interconversion of other topological isomers of double-stranded
cc DNA rings, including catenanes and knotted rings (By similarity).

CC -!- CATALYTIC ACTIVITY: ATP-dependent breakage, passage and rejoining
cc -!- SIMILARITY: Belongs to the type II topoisomerase family.

CC -!- SIMILARITY: Belongs to the type II topoisomerase family.

CC -!- SIMILARITY: Belongs to the type II topoisomerase family.

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Matches 5
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Q68WF6;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=15317790; DOI=10.1128/JB.186.17.5842-5855.2004; McLeod M.P., Qin X., Karpathy S.E., Gioia J., Highlander S.K., Fox G.E., McNeill T.Z., Jiang H., Muzny D., Jacob L.S., Hawes i Sodergren E., Gill R., Hume J., Morgan M., Fan G., Amin A.G., Gibbs R.A., Hong C., Yu X.-J., Walker D.H., Weinstock G.M.; "Complete genome sequence of Rickettsia typhi and comparison wi sequences of other Rickettsiae.";
                                                                                                                                                                                                                                  PROSITE; PSOC
ATP-binding;
SEQUENCE 80
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5.99.1.3)
 Q7TMA9
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PubMed=15317790; D
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NCBI_TaxID=785;
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                                                                                                                                                                                                                                                                                   TIGRFAMs;
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pS00177; TOPOISOMERASE_II; 1.
ing; Complete proteome; Isomerase; Topoisomerase.
807 AA; 90951 MW; 659227788BF99FF2 CRC64;
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Pred. No. 1.4e+03;
1; Mismatches 0
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Best Local S
Matches
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Xu C.S., Li W.Q., Li Y.C., Yang K.J., Yan H.M., (Mang L., Wang S.F., Han H.P., Wang G.P., (Mang H., Wang L., Wang S.F., Han H.P., Wang G.P., (Mang H.), Rahman S., Wang Q.N., Zhang J.B.;

Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;

Submitted (JUN-2003) to the EMBL/GenBank/DDBJ datement of the EMBL, AY310153; AAP787501.; --

EMBL; AY312134; AAP862250.1; --

EMBL; AY325312; AAP86256.1; --

EMBL; AY325318; AAP92597.1; --

EMBL; AY325318; AAP92633.1; --

EMBL; AY318961; AAP85372.1; --

EMBL; AY318961; AAP85372.1; --

EMBL; AY318961; AAP85372.1; --

EMBL; AY318961; AAP85372.1; --

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EMBL; AY318961; AAP85372.1; --

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EMBL; AY318961; AAP85372.1; --

EMBL; AY318961; AAP86385. COAN 1146 160 G1
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XU C.S., Li W.Q., Li Y
Yang K.J., Yan H.M., C
Shi J.B., Rahman S., W
Submitted (JUN-2003) t
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05-JUL-2004 (TrEM)
Ac1262 (Ac1-114)
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Xu C.S., Li W.Q., Li Y.C., Han H.P., W
Xu C.S., Yan H.M., Chang C.F., Zhao
Yang K.J., Yan H.M., Chang Q.N., Zhang
Shi J.B., Rahman S., Wang Q.N., Zhang
Submitted (MAY-2003) to the EMBL/GenBa
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XU C.S., Li W.Q., Li Y.C., Wang L., Wang S.F., He
XU C.S., Yuan J.Y., Yang K.J., Yan H.M., Chang
Chai L.Q., Yuan J.Y., Yang K.J., Yan H.M., Chang
Ma H., Shi J.B., Rahman S., Wang Q.N., Zhang J.B.
Submitted (JUN-2003) to the EMBL/GenBank/DDBJ dat
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Mammalia; Eutheria;
NCBI_TaxID=10116;
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Xu C.S., Li W.Q., Li Y.C., Chang C.F., Han H.I.
Xu C.S., Yang K.J., Yan H.M., Zhao L.F., Ma
Yuan J.Y., Yang K.J., Yan H.M., Zhang J.B.;
Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;
Submitted (JUN-2003) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.

XU C.S., Li W.Q., Li Y.C., Zhao L.F., Ma H., Wang L., Wa
XU C.S., Li W.Q., Li Y.C., Yuan J.Y., Yang K.J., Ya
Han H.P., Wang G.P., Chai L.Q., Yuan J.Y., Zhang J.B.;
Chang C.F., Shi J.B., Rahman S., Wang Q.N., Zhang J.B.;
Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
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SMART; SM00159;
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     Similarity 83. 5; Conservative
                                                                                                                                  PD002153; Pentaxin;
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                                                                     PS00213; LIPOCALIN;
PS00289; PENTAXIN;
1015 AA; 116461 N
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                    96.9%;
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C.F., Zhao L.F., Ma
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     Pred. No. 1.8e
1; Mismatches
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     1.8e+03;
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ng S.F., Han H.I
, Zhang J.B.;
DDBJ databases.
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H., Wang L.,
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                                      Length 1015;
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H., Wang L., Wang S.F.
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Chai L.Q.,
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STRAIN-C57BL/63; TISSUE-Heart;

K MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=110.1101/gr.152600;

MEDLINE-20530913; PubMed=110.1101/gr.152600;

MEDLINE-20530913; PubMed=110.1101/gr.152600;

MEDLINE-20530913; PubMed=110.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600;

MEDLINE-20530913; PubMed=11076861; P., Masaki N., Matsuuma M., Matsuuma M., Matsuuma M., Matsuuma M., Matsuuma E., Watahiki M., Vanamooto R., Tonue Y., Kira A., Hayashizaki Y., Watahiki M., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma A., Matsuuma S., Kawai J., Vanamooto R., Matsuuma R., Matsuuma S., Kawai J., Vanamooto R., Matsuuma S., Kawai J., Vanamooto R., Matsuuma R., Matsuuma S., Kawai J., Vanamooto R., Matsuuma R., Matsuuma S., Kawai J., Vanamooto R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Matsuuma R., Ma
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Q8C777;
01-MAR-2003
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STRAIN=C57BL/6J; TISSUE=Heart;

MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;

Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K.,

Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;

"Normalization and subtraction of cap-trapper-selected cDNAs

prepare full-length cDNA libraries for rapid discovery of new

Genome Res. 10:1617-1630(2000).
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01-0CT-2003 (TrEMBLrel. 25, Last annotation update)
Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched
library, clone:D330046B13 product:minichromosomo maintain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the RIKEN Genome Exploration Research Group Phase I & II Team; "Analysis of the mouse transcriptome based on functional annotation 60,770 full-length cDNAs."; 'Nature 420:563-573 (2002)."
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STRAIN=C57BL/6J; TISSUE=Heart;
MEDLLNE=21085660; PubMed=11217851; DOI=10.1038/35055500;
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MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
Carninci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cloning.";
Meth. Enzymol. 303:19-44(1999).
                                      Adachi J., Aizawa K., Fukuda S., Furuno M.,
                                                                                                                      SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Heart;
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=C57BL/6J; TISSUE=Heart;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                44
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Hayatsu
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Rodentia;
Akimura T., Arakawa T., Bono H., Ca
Hanagaki T., Hara A., Hashizume W.,
N., Hiramoto K., Hiraoka T., Hiroza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of a full-length mouse cDNA collection.";
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                                                                                Carninci P.,
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RESULT 45
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                                                     InterPro;
InterPro;
InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-OCT-2003 (TREMBLrel. 25, Created)
01-OCT-2003 (TREMBLrel. 25, Last sequence update)
01-WAR-2004 (TREMBLrel. 26, Last annotation update)
Sensory transduction histidine kinase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q7USG5;
01-OCT-2003 (TrEMBLrel.
01-OCT-2003 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
               InterPro;
InterPro;
                                                                                                           888888888888
                                                                                                                                                                                                                                                            Proc. Natl. Acad. Sci. U.S.A. 100:8298-8303 (2003).

- SIMILARITY: Contains 1 histidine kinase domain

EMBL; BX294140; CAD73831.1; --

HSSP; O9ZWQ6; 1JNU.
                                                                                                                                                                                                                                                                                                                                           Gloeckner F.O., Kube M., Bauer M., Teeli
Ludwig W., Gade D., Beck A., Borzym K.,
Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacteria; Planctomycetes; Planctomycetaceae; Pirellu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rhodopirellula baltica.
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                                          InterPro;
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                                                                                                                                                                                                                                                                                                                                "Complete genome sequence
                                                                                                          GO:00016020; C:membrane; IEA.
GO:0005524; F:ATP binding; IEA.
GO:0003577; F:DNA binding; IEA.
GO:0003677; F:Stinase activity; IEA.
GO:0016301; F:kinase activity; IEA.
GO:0016740; F:transferase activity; IEA.
GO:000156; F:two-component response regulator activity; IEA.
GO:0000155; F:two-component sensor molecule activity; IEA.
GO:00006935; P:chemoctaxis; IEA.
GO:0007600; P:two-component signal transduction system (p.
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; MCI:1930089; Mcm3ap.
GO:0005737; C:cytoplasm; IDA.
GO:0005634; C:nucleus; IDA.
erPro: IPR005062; SAC3_GANP.
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p; IPR003594; ATPbind ATPase.
); IPR000673; CheB_methylest.
); IPR000706; CheY_like.
); IPR011006; CheY_like.
); IPR005467; His Kinase.
); IPR003661; His_kinase.
); IPR003661; His_kina.
); IPR003652; N6_Mtase.
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3399; SAC3_GANP; 1.
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1224 AA;
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1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                      DOI=10.1073/pnas.1431443100;
Teeling H., Lombardot T.,
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RE STRAIN=C57BL/6J; TISSUE=Kidney;

RX MEDLINE=22388257, PubMed=12477932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257, PubMed=12477932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257, PubMed=1247932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257, PubMed=1247932; DOI=10.1073/pnas.242603899;

RX MEDLINE=22388257, PubMed=1247932; DOI=10.1073/pnas.242603899;

RX Strausberg R.L., Feingold E.A., Schenen C.M., Schuler G.D.,

RA Hitschul S.F., Zeeberg B., Buetow K.H., Scheefer C.F., Bhat N.K.,

RA Diatchenko L., Mazusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gabbs R.A.,

The Prance C., Farmer B.J., Lu X., Gibbs R.A.,

Parkey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

The Prance C., Shevchenko Y., Bouffard G.G.,
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Q6NWV4
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InterPro; IPR001789; Response_reg.
pfam; pF01339; CheB_methylest; 1.
pfam; pF01739; CheR; 1.
pfam; pF01739; CheR; 1.
pfam; pF00512; HisKa; 1.
pfam; pF00512; HisKa; 1.
pfam; pF00512; HisKa; 1.
pfam; pF00785; PAC; 3.
pfam; pF00785; PAC; 3.
pfam; pF00989; PAS; 4.
pfam; pF00989; PAS; 4.
pfam; pF00989; PAS; 4.
pfam; pF00989; PAS; 4.
pfam; pF00072; Response_reg; 1.
proDom; pD005328; CheB_methylest; 1.
proDom; pD005328; CheB_methylest; 1.
smarT; SM00188; HisKa; 1.
smarT; SM00188; HisKa; 1.
smarT; SM00188; MeTrc; 1.
smarT; SM00086; PAC; 3.
smarT; SM00091; PAS; 4.
smarT; SM00091; PAS; 4.
Fahey J., headar Whiting M., Madar
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Mammalia; Eutheria;
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Name=Mcm3ap;
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05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
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T; SM00138; McTrc; 1.
T; SM00015; PAC; 3.
T; SM00091; PAS; 4.
T; SM000448; REC; 1.
FAM8; TIGR00229; sensory_box; 3
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PS50123; CHER; 1.
PS50103; HIS KIN; 1.
PS00092; N6 MTASE; UN
PS00103; PAG; 2.
PS50112; PAG; 3.
PS50112; PAG; 3.
PS50110; RESPONSE REG
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Rodentia;
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SEQUENCE
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Blood 95:2321-2328(2000).
-!- FUNCTION: May be involved in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (MAR-2004) to the EMBI
EMBL, BC067414; AAH67414.1; -.
EMBL, GC:0005737; C:cytoplasm; IDA.
GO; GC:0005634; C:nucleus; IDA.
InterPro; IPR005062; SAC3_GANP.
                                                                                  This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restrue by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                    Kouno Y., Tom
Sakaguchi N.;
                                                                                                                                                                                                                                                                                                                                MEDLINE=20197882; PubMed=10733502;
Kuwahara K., Yoshida M., Kondo E., 
Kouno Y., Tomiyasu S., Fujimura S.,
                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N. STRAIN=BALB/C X
                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             30-MAY-2000 (Rel. 39, Last sequence US-UTL-2004 (Rel. 44, Last annotation Rotal MCM3-associated protein (GANP Name=Mcm3ap; Synonyms=GANP, Map80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q9WUU9;
30-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rodriguez A.C., Grimwood J.,
Krzywinski M.I., Skalska U.,
            MGD; MGI:1930089; Mcm3ap.
GO; GO:0005737; C:cytoplasm;
GO; GO:0005634; C:nucleus; II
InterPro; IPR005062; SAC3_GAN
                                                                                                                                                                                                              ++
                                                                                                                                                                                                                                                                                         "A novel nuclear phosphoprotein, of the germinal center and associ
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                                                                                                                                                                                     MCM3 (By similarity).
SUBUNIT: Interacts with MCM3.
SUBULLIAR LOCATION: Nuclear and cytoplasmic PTM: Phosphorylated (Probable).
SIMILARITY: Belongs to the SAC3 family.
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A Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan R., Farmer A.A., Rubin G.M., Hong L.,

A Hopkins R.F., Jordan R., Farmer A.A., Rubin G.M., Hong L.,

A Hopkins R.F., Jordan R., Farmer A.A., Rubin G.M., Hong L.,

A Hopkins R.F., Jordan R., Formitti S., Carninci P., Frange C.,

A Hopkins R.F., Jordan R., Formitti S., Carninci P., Frange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Robesk S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Hilalon D.K., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Villalon D.K., Morley R.C., Shevchenko Y., Gibbs R.A.,

A Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

A Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Bakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

A Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
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01-OCT-2003
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EMBL; BC052452; AAH52452.1; -.
GO; GO:0005737; C:cytoplasm; IDA.
GO; GO:0005634; C:nucleus; IDA.
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TISSUE=Brain;
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STRAIN=C57BL/6; TISSUE=Brain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Generation and initial analysis of more than 15,000 full-length humar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    48
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.
                                                                                                                                                       1388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1388 VGDIGD
                                                                                                                                                                                                                                                                                                                                                                                    PF03399; SAC3_GANP; 1.
NCE 1971 AA; 217361 MW;
                                                                                                                                                                                               1 IGDIGD 6
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                                                                                                                                                                                                                                                                     Similarity 5; Conserv
                                                                                                                                                       VGDIGD 1393
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(TrEMBLrel. 26, Last annotation update)
ome maintenance protein 3 associated protein.
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      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1393
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AA; 217138 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Chordata;
; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96.9%;
83.3%;
                                                                                                                                                                                                                                                                                              96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        U.S.A.
                                                                                                                                                                                                                                                                     Score 31; DB 2; Le 
Pred. No. 3.5e+03; 
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99:16899-16903 (2002)
      PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                           FA9CDB20D1441B02 CRC64;
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   1992 AA
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RESULT
Q7RNK7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                            PubMed=12368665; DOI=10.1038/nature01099;
Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Pertea M.,
Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
Peterson J.D., Pop M., Kosack D.S., Shunway M.F., Bidwell S.L.,
Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V.,
Cho J.K., Quackenbush J., Sedegah M., Shoabi A., Cummings L.M.,
Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A.,
Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B.,
van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Okazaki N., Kikuno R., Ohara R., Inamoto S., Aizawa H., Yuasa S., Makajima D., Nagase T., Ohara O., Koga H.;
"Prediction of the coding sequences of mouse homologues of KIAA gene:
II. The complete nucleotide sequences of 400 mouse KIAA-homologous cDNAs identified by screening of terminal sequences of cDNA clones randomly sampled from size-fractionated libraries.";
DNA Res. 10:35-48(2003).
EMBL, AK123313, BAC65595.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      080TX5;
01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
            EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                          01-MAR-2004
01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q7RNK7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q7RNK7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGD; MGI:1930089; Mcm3ap.
GO; GO:0005737; C:cytoplasm; IDA.
GO; GO:0005634; C:nucleus; IDA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Name=Mcm3ap; Synonyms=mKIAA0572;
Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=73239;
                                                                                                                                                                                                                                                                                                                                              Plasmodium yoʻelii yoʻelii.
Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
                                                                                                                                                                                                                                                                                                                                                                                 Name=PY01809
                                                                                                                                                                                                                                                                                                                                                                                            Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                              01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR005062; SAC3_GANP.
Pfam; PF03399; SAC3_GANP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MKIAA0572 protein (Fragment
                                                                                   "Genome sequence and comparative analysis parasite Plasmodium yoelii yoelii.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NON_TER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=10090;
                                                                      Nature 419:512-519(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22579291; PubMed=12693553;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity nes 5; Conserv
            preliminary data.
L; AABL01000489; EAA21180.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1409
                                         CAUTION: The sequence sh
EMBL/GenBank/DDBJ whole
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 IGDIGD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1992 AA;
                                                                                                                                                                                                                                                                                                                                                                                                           (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                           (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1414
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Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           96.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        219884 MW;
                                                                                                                                                                                                                                                                                                                                                                                                           226,
                                                          shown here is derived from
                                                                                                                                                                                                                                                                                                                                                                                                           Created)
Last sequence update)
Last annotation update)
                                         genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 31;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C980215AE6B2D440 CRC64;
                                         shotgun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2251 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .5e+03;
                                                                                                      œ,
                                            (WGS)
                                                                                                      the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1992;
                                         entry v
                                                                                                      model
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                                            which
                                                                                                                                    Gardner M.J.,
                                                                                                        rodent malaria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>,</u>
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DR InterPro; IPR006209; EGF_like.

DR PROSITE; P$006236; DNAJ 1; UNKNOWN 1.

DR PROSITE; P$000625; EGF 1; UNKNOWN 1.

EXAM Hypothetical protein.

SQ SEQUENCE 2251 AA; 267817 MW; F3B6FCB24BBD5492 CRC64;.

Query Match 96.9%; Score 31; DB 2; Length 2251;

Best Local Similarity 83.3%; Pred. No. 4e+03;

Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Oy 1 IGDIGD 6

Db 806 IGDVGD 811

Search completed: July 27, 2005, 01:20:29

Job time: 178 secs
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